

Service

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# Service Manual

Horizontal Frequency

31-83 KHz

## TABLE OF CONTENTS

Description	Page	Description	Page
Table Of Contents.....	1	6.Schematic.....	20
Revision List.....	2	6.1.Main Board.....	20
Important Safety Notice.....	3	6.2.Power Board.....	25
1.Monitor Specification.....	4	6.3.Audio Board.....	27
2.LCD Description.....	6	6.4.Key Board.....	28
3.Operation Instruction.....	7	7.PCB Layout.....	29
3.1.General Instructions.....	7	7.1.Main Board.....	29
3.2.Control Button.....	7	7.2.Power Board.....	32
3.3.OSD Menu.....	8	7.3.Audio Board.....	34
4.Input/Output Specification.....	12	7.4.Key Board.....	35
4.1.Input Signal Connector.....	12	8.Maintainability.....	36
4.2.Power Supply Requirements.....	13	8.1.Equipments and Tools Requirement.....	36
4.3.Factory Preset Display Modes.....	13	8.2.Trouble Shooting.....	37
4.4.Panel Specification.....	14	9.White-Balance, Luminance adjustment.....	43
5.Block Diagram.....	14	10.Monitor Exploded View.....	45
		11.BOM	

ANY PERSON ATTEMPTING TO SERVICE THIS CHASSIS MUST FAMILIARIZE HIMSELF WITH THE CHASSIS AND BE AWARE OF THE NECESSARY SAFETY PRECAUTIONS TO BE USED WHEN SERVICING ELECTRONIC EQUIPMENT CONTAINING HIGH VOLTAGES.

CAUTION: USE A SEPARATE ISOLATION TRANSFORMER FOR THIS UNIT WHEN SERVICING

## Revision List

[illegible]


## **Important Safety Notice**

Proper service and repair is important to the safe, reliable operation of all AOC Company Equipment. The service procedures recommended by AOC and described in this service manual are effective methods of performing service operations. Some of these service operations require the use of tools specially designed for the purpose. The special tools should be used when and as recommended.

It is important to note that this manual contains various CAUTIONS and NOTICES which should be carefully read in order to minimize the risk of personal injury to service personnel. The possibility exists that improper service methods may damage the equipment. It is also important to understand that these CAUTIONS and NOTICES ARE NOT EXHAUSTIVE. AOC could not possibly know, evaluate and advise the service trade of all conceivable ways in which service might be done or of the possible hazardous consequences of each way. Consequently, AOC has not undertaken any such broad evaluation. Accordingly, a servicer who uses a service procedure or tool which is not recommended by AOC must first satisfy himself thoroughly that neither his safety nor the safe operation of the equipment will be jeopardized by the service method selected.

Hereafter throughout this manual, AOC Company will be referred to as AOC.

### **WARNING**

Use of substitute replacement parts, which do not have the same, specified safety characteristics may create shock, fire, or other hazards.

Under no circumstances should the original design be modified or altered without written permission from AOC. AOC assumes no liability, express or implied, arising out of any unauthorized modification of design.

Servicer assumes all liability.

#### **FOR PRODUCTS CONTAINING LASER:**

DANGER-Invisible laser radiation when open AVOID DIRECT EXPOSURE TO BEAM.

CAUTION-Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION -The use of optical instruments with this product will increase eye hazard.

TO ENSURE THE CONTINUED RELIABILITY OF THIS PRODUCT, USE ONLY ORIGINAL MANUFACTURER'S REPLACEMENT PARTS, WHICH ARE LISTED WITH THEIR PART NUMBERS IN THE PARTS LIST SECTION OF THIS SERVICE MANUAL.

Take care during handling the LCD module with backlight unit

- Must mount the module using mounting holes arranged in four corners.
- Do not press on the panel, edge of the frame strongly or electric shock as this will result in damage to the screen.
- Do not scratch or press on the panel with any sharp objects, such as pencil or pen as this may result in damage to the panel.
- Protect the module from the ESD as it may damage the electronic circuit (C-MOS).
- Make certain that treatment person's body is grounded through wristband.
- Do not leave the module in high temperature and in areas of high humidity for a long time.
- Avoid contact with water as it may a short circuit within the module.
- If the surface of panel becomes dirty, please wipe it off with a soft material. (Cleaning with a dirty or rough cloth may damage the panel.)

## 1. Monitor Specifications

LCD Panel	Model number	2219P2
	Driving system	TFT Color LCD
	Viewable Image Size	558mm diagonl
	Pixel pitch	0.282mm(H) x 0.282mm(V)
	Video	R, G, B Analog Interface & Digital Interface
	Separate Sync.	H/V TTL
	Display Color	16.7M Colors
	Dot Clock	165 MHz
Resolution	Horizontal scan range	30 kHz - 80 kHz
	Horizontal scan Size(Maximum)	473.76mm
	Vertical scan range	55 Hz - 75 Hz
	Vertical scan Size(Maximum)	296.10mm
	Optimal preset resolution	1680 x 1050 (60 Hz)
	Highest preset resolution	1680 x 1050 (75 Hz)
	Plug & Play	VESA DDC2B/CI

**22" LCD Color Monitor****AOC 2219P2**

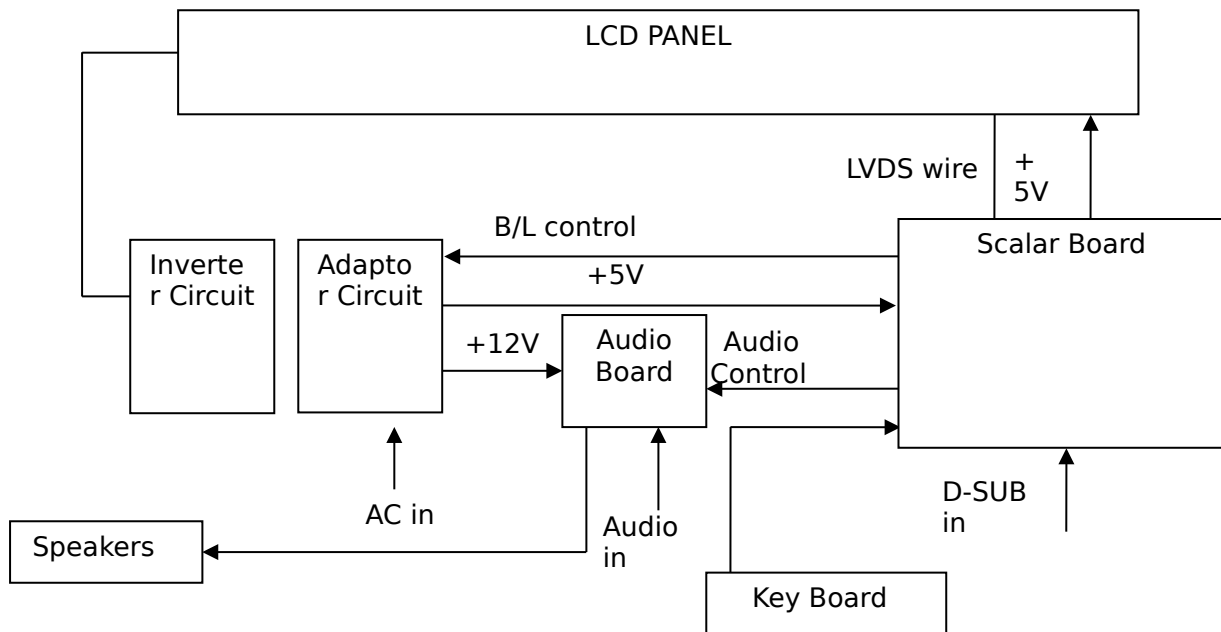
	Input Connector	D-Sub 15pin & DVI-D
	Input Video Signal	Analog: 0.7Vp-p(standard), 75 OHM, Positive & DVI-D Digital Interface (TMDS)
	Power Source	100~240VAC, 50/60Hz
	Power Consumption	Active < 49 W
		Standby < 1 W
	Speakers	2 x 2W
Physical Characteristics	Connector Type	15-pin Mini D-Sub & DVI-D
	Signal Cable Type	Detachable
	Dimensions & Weight:	
	Height (with base)	397.9 mm
	Width	505.9 mm
	Depth	249.7 mm
	Weight (monitor only)	6.6 kg
	Weight (with packaging)	8.5 kg
Environmental	Temperature:	
	Operating	0° to 40°
	Non-Operating	-20°to 60°
	Humidity:	
	Operating	10% to 85% (non-condensing)
	Non-Operating	5% to 80% (non-condensing)
	Altitude:	
	Operating	0~ 3000m (0~ 10000 ft )
	Non-Operating	0~ 5000m (0~ 15000 ft )



## 2. LCD Monitor Description

The LCD monitor will contain a main board, an audio board, a power board and a key board which house the flat panel control logic, brightness control logic and DDC.

The power board will provide AC to DC Inverter voltage to drive the backlight of panel and the main board chips each voltage.



## **3. Operating Instructions**

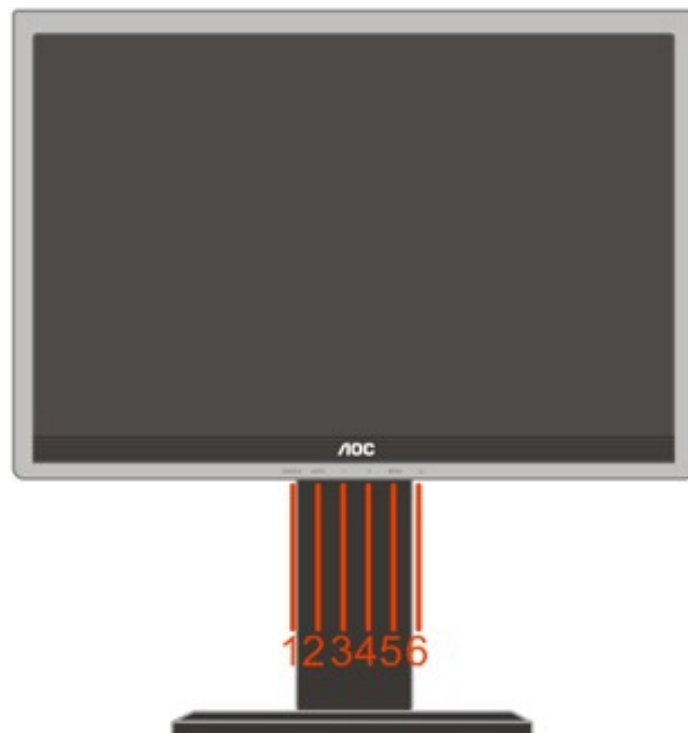
### **3.1 General Instructions**

Press the power button to turn the monitor on or off. The other control buttons are located at the front of the panel of the monitor.

By changing these settings, the picture can be adjusted to your personal preferences.

- The power cord should be connected.
- Connect the video cable from the monitor to the video card.
- Press the power button to turn on the monitor, the power indicator will light up.

### **3.2 Control Buttons**



1 Source

2 (Auto) / Exit

3 Eco mode / -

4 Volume / +

5 Menu / Enter

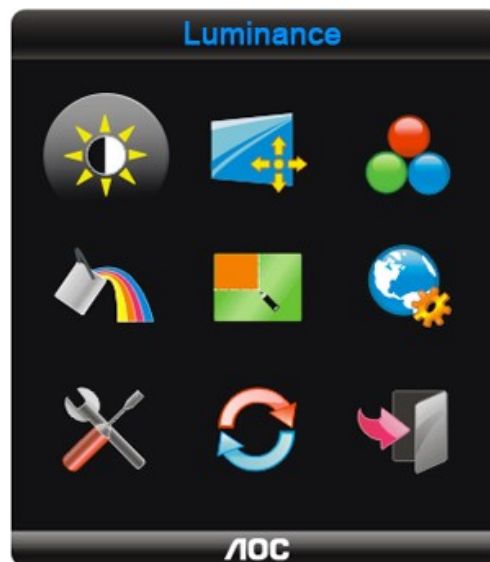
6 Power Button & Indicator













### 3.3 OSD Menu




#### OSD Function Introduction


- Press the MENU-button to activate the OSD window.
- Press+ or - to navigate through the functions. Once the desired function is highlighted, press the MENU-button to activate it. If the function selected has a sub-menu, press s+ or - again to navigate through the sub-menu functions. Once the desired function is highlighted, press MENU-button to activate it.
- Press+ or - to change the settings of the selected function. To exit and save, select the exit function. If you want to adjust any other function, repeat steps 2-3.
- OSD Lock Function: To lock the OSD, press and hold the Menu button while the monitor is off and then press power button to turn the monitor on. To un-lock the OSD - press and hold the Menu button while the monitor is off and then press power button to turn the monitor on.
- Eco Mode hot key : Press the Eco key continuously to select the Eco mode of brightness when there is no OSD ( Eco mode hot key may not be available in all models).
- Volume adjustment hot key : When there is no OSD , press Volume (+) to active volume adjustment bar, press - or + to adjust volume ( Only for the models with speakers).
- Source hot key : When the OSD is closed, press Auto/Source button will be Source hot key function (Only for the models with dual or more inputs) .Press Source button continuously to select the input source showed in the message bar , press Menu/Enter button to change to the source selected.
- Auto configure hot key: When the OSD is closed, press Auto button will be auto configure hot key function.




## Function Control Illustration

	Luminance	Adjust Range	Description
	Brightness	0-100	Backlight Adjustment
	Contrast	0-100	Contrast from Digital-register.
	Eco mode	Standard 	Standard Mode
		Text 	Text Mode
		Internet 	Internet Mode
		Game 	Game Mode
		Movie 	Movie Mode
		Sports 	
	Gamma	Gamma1	Adjust to Gamma1
		Gamma2	Adjust to Gamma 2
		Gamma3	Adjust to Gamma 3
	DCR	Off 	Disable dynamic contrast ratio
		On 	Enable dynamic contrast ratio
	Image Setup		
	Clock	0-100	Adjust picture Clock to reduce Vertical-Line noise.
	Phase	0-100	Adjust Picture Phase to reduce Horizontal-Line noise
	H.Position	0-100	Adjust the verticalposition of the picture.
	V.Position	0-100	Adjust the horizontal position of the picture.

	Color Temp.		
	Warm	6500K	Recall Warm Color Temperature from EEPROM.
	Normal	7300K	Recall Normal Color Temperature from EEPROM.
	Cool	9300K	Recall Cool Color Temperature from EEPROM.
	sRGB		Recall sRGB Color Temperature from EEPROM.
	User	Red	Red Gain from Digital-register
		Green	Green Gain Digital-register.
		Blue	Blue Gain from Digital-register
	Color Boost		
	Full Enhance	on or off	Disable or Enable Full Enhance Mode
	Nature Skin	on or off	Disable or Enable Nature Skin Mode
	Green Field	on or off	Disable or Enable Green Field Mode
	Sky-blue	on or off	Disable or Enable Sky-blue Mode
	AutoDetect	on or off	Disable or Enable AutoDetect Mode
	Demo	on or off	Disable or Enable Demo
	Picture Boost		
	Frame Size	14-100	Adjust Frame Size
	Brightness	0-100	Adjust Frame Brightness
	Contrast	0-100	Adjust Frame Contrast

	H. position	0-100	Adjust Frame horizontal Position
	V.position	0-100	Adjust Frame vertical Position
	Bright Frame	on or off	Disable or Enable Bright Frame
	OSD Setup		
	H.Position	0-100	Adjust the verticalposition of OSD
	V.Position	0-100	Adjust the horizontal position of OSD
	Timeout	5-120	Adjust the OSD Timeout
	Transparence	0-100	Adjust the transparence of OSD
	Language		Select the OSD language
	Extra		
	Input Select	Auto	Select to Auto Detect input signal
		Analog	Select Analog Sigal Source as Input
		Digital	Select Digital Signal Source as Input
	Auto Config	yes or no	Auto adjust the picture to default
	Image Ratio	wide or 4:3	Select wide or 4:3 format for display
	DDC-CI	yes or no	Turn ON/OFF DDC-CI Support
	Reset		
	Reset	yes or no	Reset the menu to default
	Exit		

	Exit		Exit the main OSD
---	------	--	-------------------

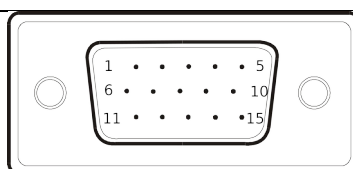
## 4. Input/Output Specification

### 4.1 Input Signal Connector

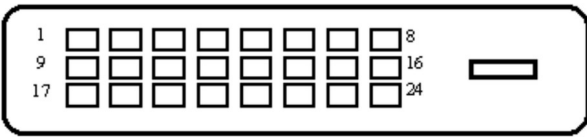
Analog connectors

Pin No.	Description	Pin No.	Description
1.	Red Video	9.	+5V
2.	Green Video	10.	Ground
3.	Blue Video	11.	N.C.
4.	N.C.	12.	DDC-Serial Data
5.	Detect Cable	13.	H-Sync
6.	Red Ground	14.	V-Sync
7.	Green Ground	15.	DDC-Serial Clock
8.	Blue Ground		

VGA connector layout



Pin No.	Description	Pin No.	Description	Pin No.	Description
1.	TMDS Data 2-	9.	TMDS Data 1-	17.	TMDS Data 0-
2.	TMDS Data 2+	10.	TMDS Data 1+	18.	TMDS Data 0+
3.	TMDS Data 2/4 Shield	11.	TMDS Data 1/3 Shield	19.	TMDS Data 0/5 Shield
4.	TMDS Data 4-	12.	TMDS Data 3-	20.	TMDS Data 5-
5.	TMDS Data 4+	13.	TMDS Data 3+	21.	TMDS Data 5+
6.	DDC Clock	14.	+5V Power	22.	RX Clock Shield
7.	DDC Data	15.	Ground(for+5V)	23.	RX Clock+

8.	NC	16.	Hot Plug Detection	24.	RX Clock-
					

## 4.2 Power Supply Requirements

A/C Line voltage range	: 90V ~ 240 V
A/C Line frequency range	: 50 ± 3Hz, 60 ± 3Hz
Peak surge current	: < 55A peak at 240 VAC and cold starting
Leakage current	: < 3.5mA
Power line surge	: No advance effects (no loss of information or defect) with a maximum of 1 half-wave missing per second
Safety certification	: CCC,UL,TUVGS
EMC	: FCC,CE

## 4.3 Factory Preset Display Modes

Mode	Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
VGA	640×480 @60Hz	31.469	59.940
VGA	640×480 @72Hz	37.861	72.809
VGA	640×480 @75Hz	37.500	75.000
Dos-mode	720×400 @70Hz	31.469	70.087
Dos-mode	640×400 @71Hz	31.469	70.087
SVGA	800×600 @56Hz	35.156	56.250
SVGA	800×600 @60Hz	37.879	60.317
SVGA	848x480@60Hz	31.020	60.000
SVGA	800×600 @72Hz	48.077	72.188
SVGA	800×600 @75Hz	46.875	75.000
XGA	1024×768 @60Hz	48.363	60.004
XGA	1024×768 @70Hz	56.476	70.069
XGA	1024×768 @75Hz	60.023	75.029
XGA	1024×768 @75Hz	60.241	74.927
XGA	1280×768 @60Hz	47.776	59.870

**22" LCD Color Monitor****AOC 2219P2**

XGA	1280×768 @60Hz	47.396	59.995
XGA	1280×768 @75Hz	60.289	74.893
SXGA	1280×1024 @60Hz	63.981	60.020
SXGA	1280×1024 @70Hz	74.882	69.853
SXGA	1360x768@60Hz	47.712	60.015
WSXGA	1680×1050 @60Hz	65.290	59.954
WSXGA+	1680x1050@60Hz	65.290	59.954

**4.4 Panel Specification****4.4.1 General Features**

TPM220Z1-PS3 IS A 22" WIDE TFT LIQUID CRYSTAL DISPLAY MODULE WITH 4 CCFL BACKLIGHT UNIT AND 55PIN RSDS INTERFACE. THIS MODULE SUPPORTS 1680 X 1050 WSXGA+ MODE AND CAN

DISPLAY 16.7 M COLORS.

- Super Wide viewing angle.
- Super High contrast ratio
- Super fast response time
- High color saturation
- WSXGA+ (1680 x 1050 pixels) resolution
- RSDS (reduced swing differential signaling ) interface
- RoHS Compliance

**4.4.2 Display Characteristics**

Item	Specification	Unit
Diagonal Size	22" wide diagonal	mm
Active Area	473.76 (H) x 296.1 (V)	mm
Bezel Opening Area	477.7x 300.1	mm
Driver Element	a-si TFT active matrix	-
Pixel Number	1680 x R.G.B. x 1050	pixel
Pixel Pitch	0.282 (H) x 0.282 (V)	mm
Pixel Arrangement	RGB vertical stripe	-
Display Colors	16.7M	color
Transmissive Mode	Normally White	-
Surface Treatment	Hard coating (3H)	-

**4.4.3 Electrical Characteristics****(1) TFT-LCD**

**22" LCD Color Monitor****AOC 2219P2**

Parameter		SYMBOL	Value			UNIT
			MIN	TYP	MAX	
Power Supply Voltage for LCD		Vcc	4.5	5	5.7	V
Differential Impedence		Zm		100		$\Omega$
LCD Inrush Current		Irush		3		A
Power Consumption		P		6.6		W
VCOM PWM	High	VCOM_PWM	2.5		0.6	V
	Low					V
VCOM PWM Frequency		VCOM_PWM	27		KHz	Adjustable Duty Cycle

**(2) Backlight**

Parameter	Symbol	Value			Unit
		Min.	Typ.	Max.	
Lamp Input Voltage	VL	---	775	853	VRMS
Lamp Current	IL	2.0	7.0	7.5	mARMS
Lamp Turn On Voltage	VS	---	---	1500(25°C)	VRMS
		---	---	1710(0°C)	VRMS
Operating Frequency	FL	40	---	80	KHz
Lamp Life Time	LBL	40000	---	---	Hrs
Power Consumption	PL	---	21.7	---	W

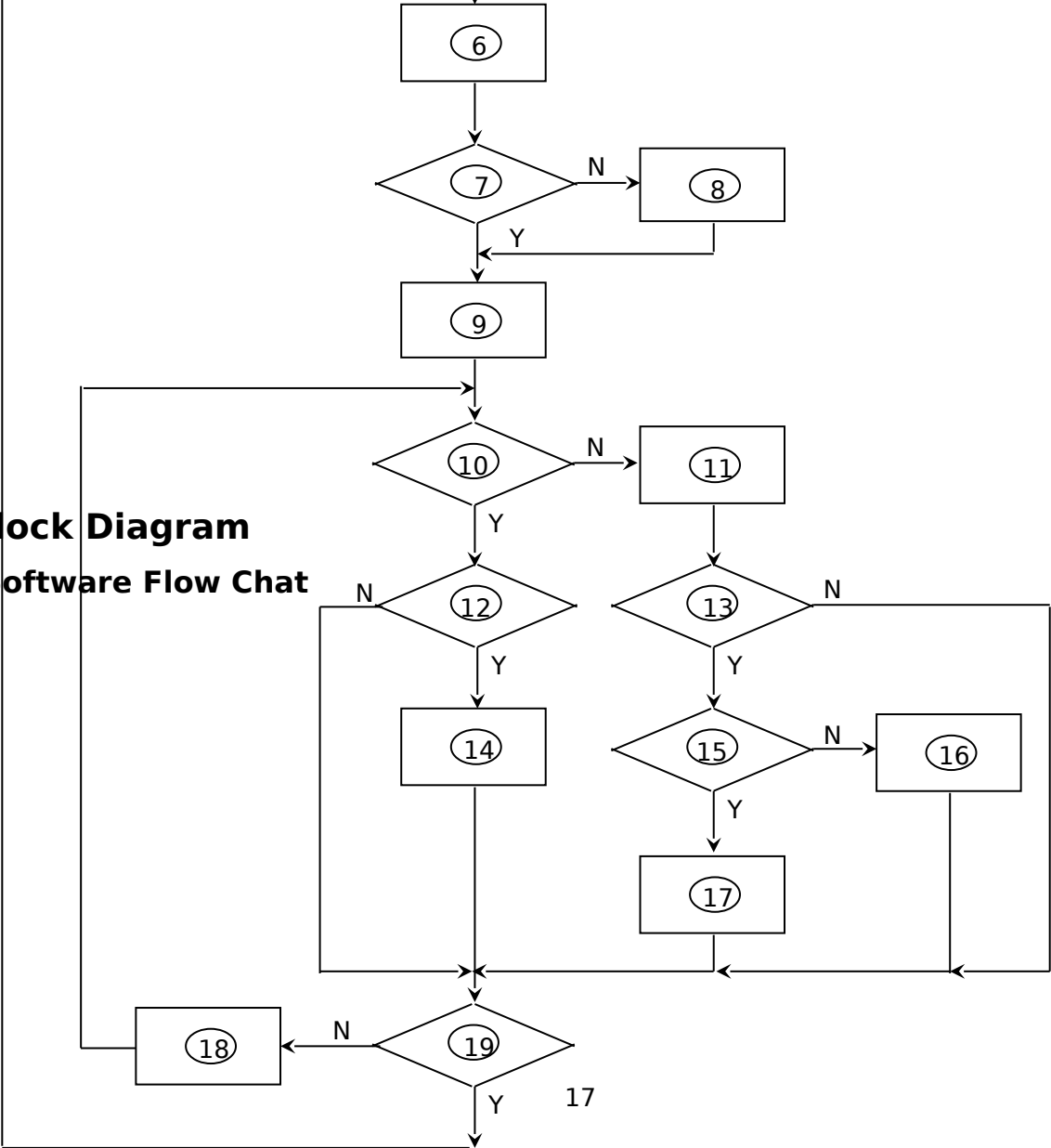


4.4.4 Optical Characteristics

Item		Symbol	Condition	Min.	Typ.	Max.	Unit
Color Chromaticity	Red	Rcx	$\theta_x=0^\circ, \theta_Y=0^\circ$ Standard light source "C"	Typ - 0.03	0.649	Typ + 0.03	-
		Rcy			0.335		-
	Green	Gcx			0.283		-
		Gcy			0.605		-
	Blue	Bcx			0.151		-
		Bcy			0.073		-
	White	Wcx			0.313		-
		Wcy			0.329		-
	Contrast Ratio		CR	1000	1000	---	----
	Response Time		$T_R$	---	1.3	2.2	ms
White Variation		$\delta V$	$\theta_x=0^\circ, \theta_Y=0^\circ$	---	1.1	---	-
Viewing Angle	Horizontal	$\theta_{x+}$	$\theta_x=0^\circ, \theta_Y=0^\circ$	75	85	---	Deg.
		$\theta_{x-}$		75	85	---	
	Vertical	$\theta_{Y+}$		70	80	---	
		$\theta_{Y-}$		70	80	---	

5. Block Diagram

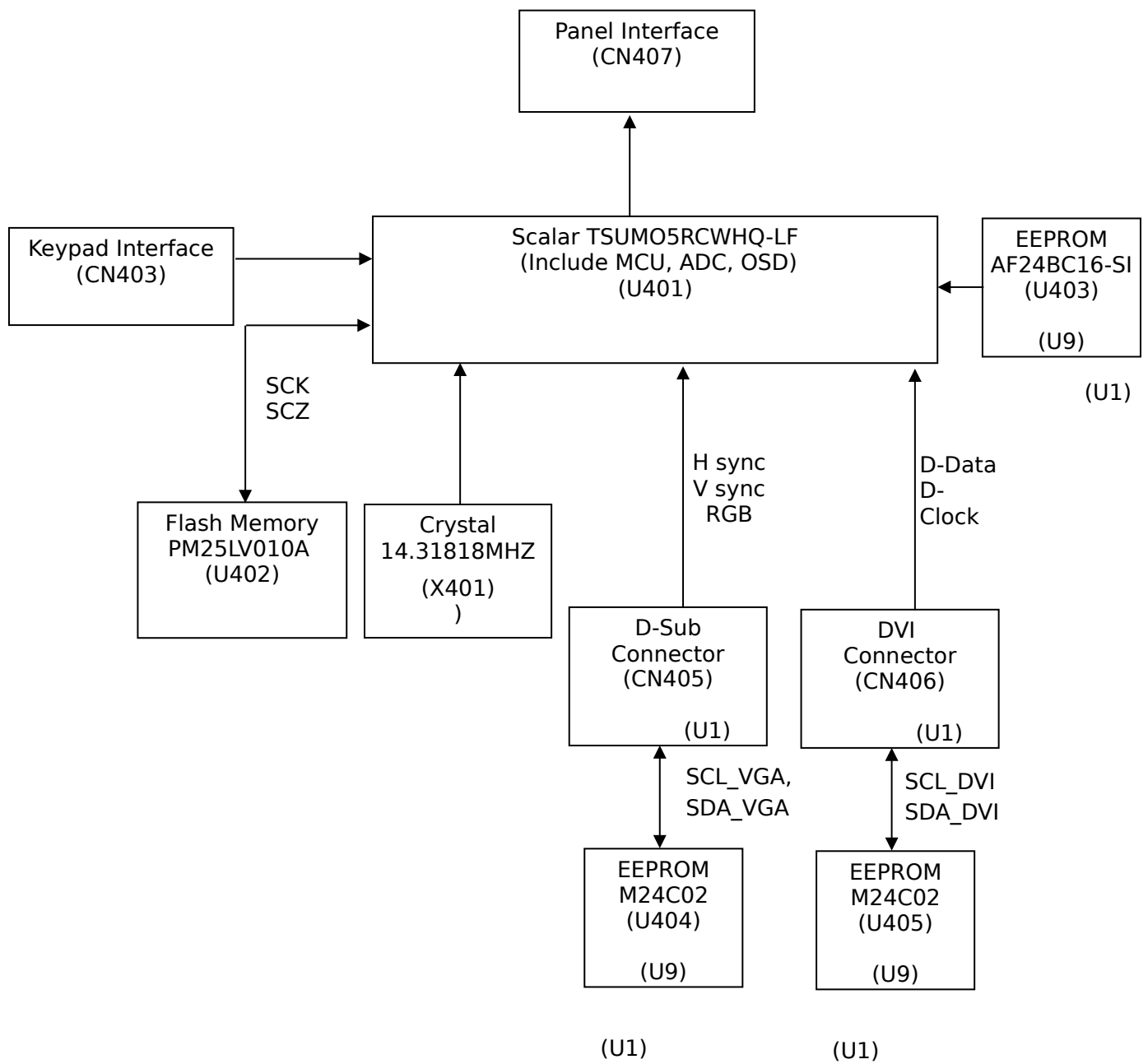
5.1 Software Flow Chat



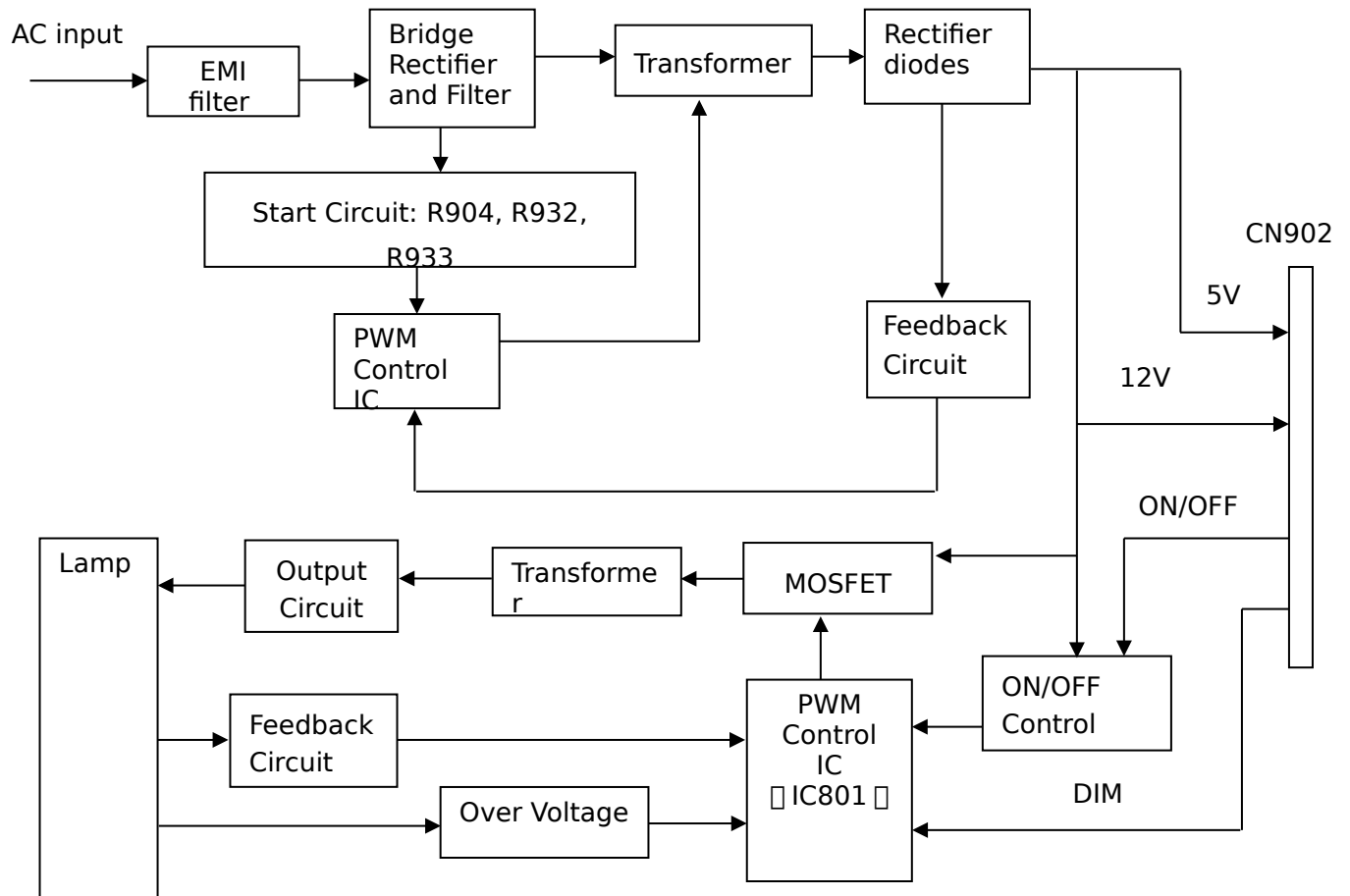
1) MCU initialize.
2) Is the EPROM blank?
3) Program the EPROM by default values.
4) Get the PWM value of brightness from EPROM.
5) Is the power key pressed?
6) Clear all global flags.
7) Are the AUTO and SELECT keys pressed?
8) Enter factory mode.
9) Save the power key status into EPROM. Turn on the LED and set it to green color. Scalar initializes.
10) In standby mode?
11) Update the lifetime of back light.
12) Check the analog port, are there any signals coming?
13) Does the scalar send out an interrupt request?
14) Wake up the scalar.
15) Are there any signals coming from analog port?
16) Display "No connection Check Signal Cable" message. And go into standby mode after the message disappear.
17) Program the scalar to be able to show the coming mode.
18) Process the OSD display.
19) Read the keyboard. Is the power key pressed?

## 5.2 Electrical Block Diagram

## 5.2.1 Main Board



## 5.2.2 Inverter/Power Board



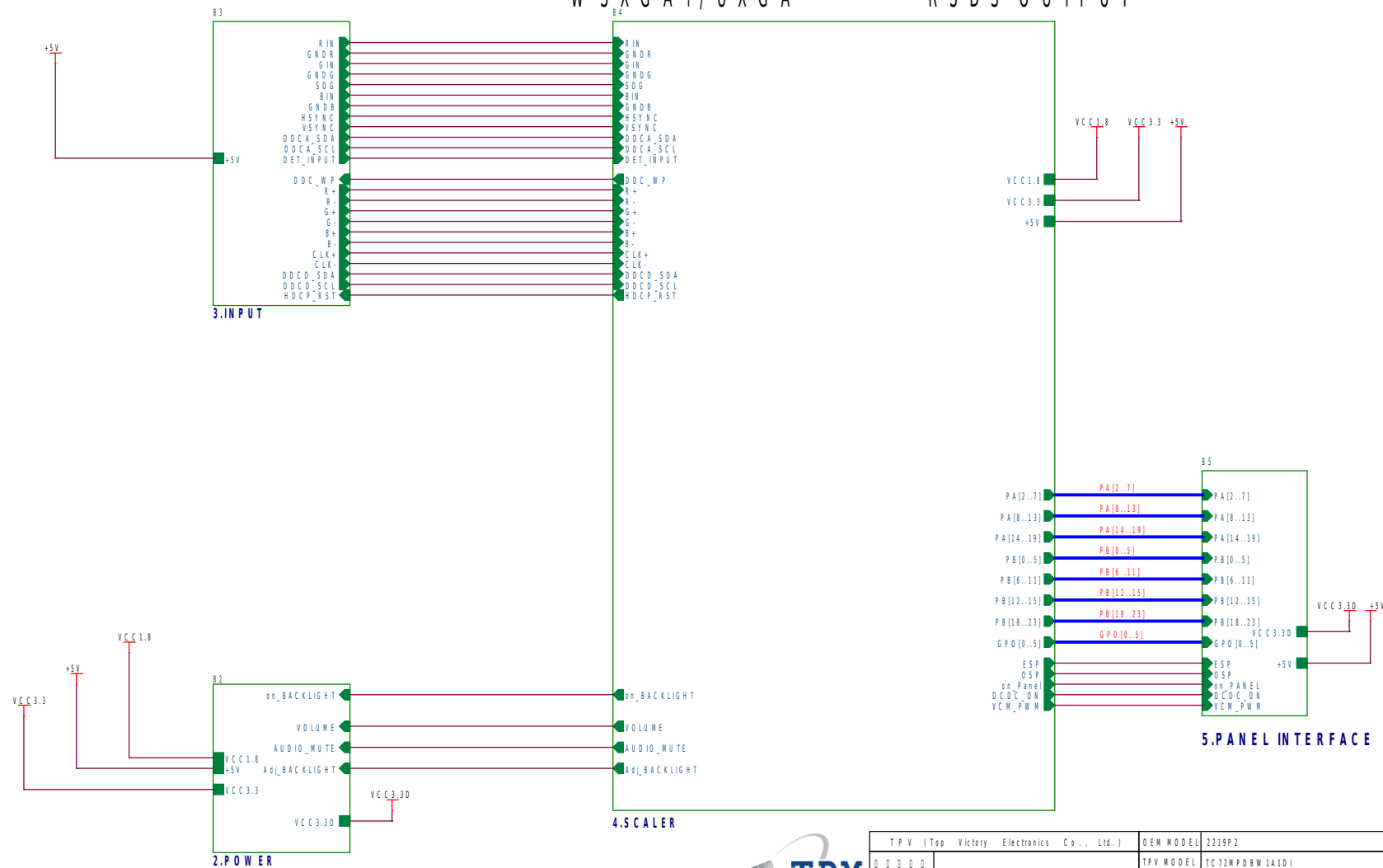
6. Schematic

6.1 Main Board

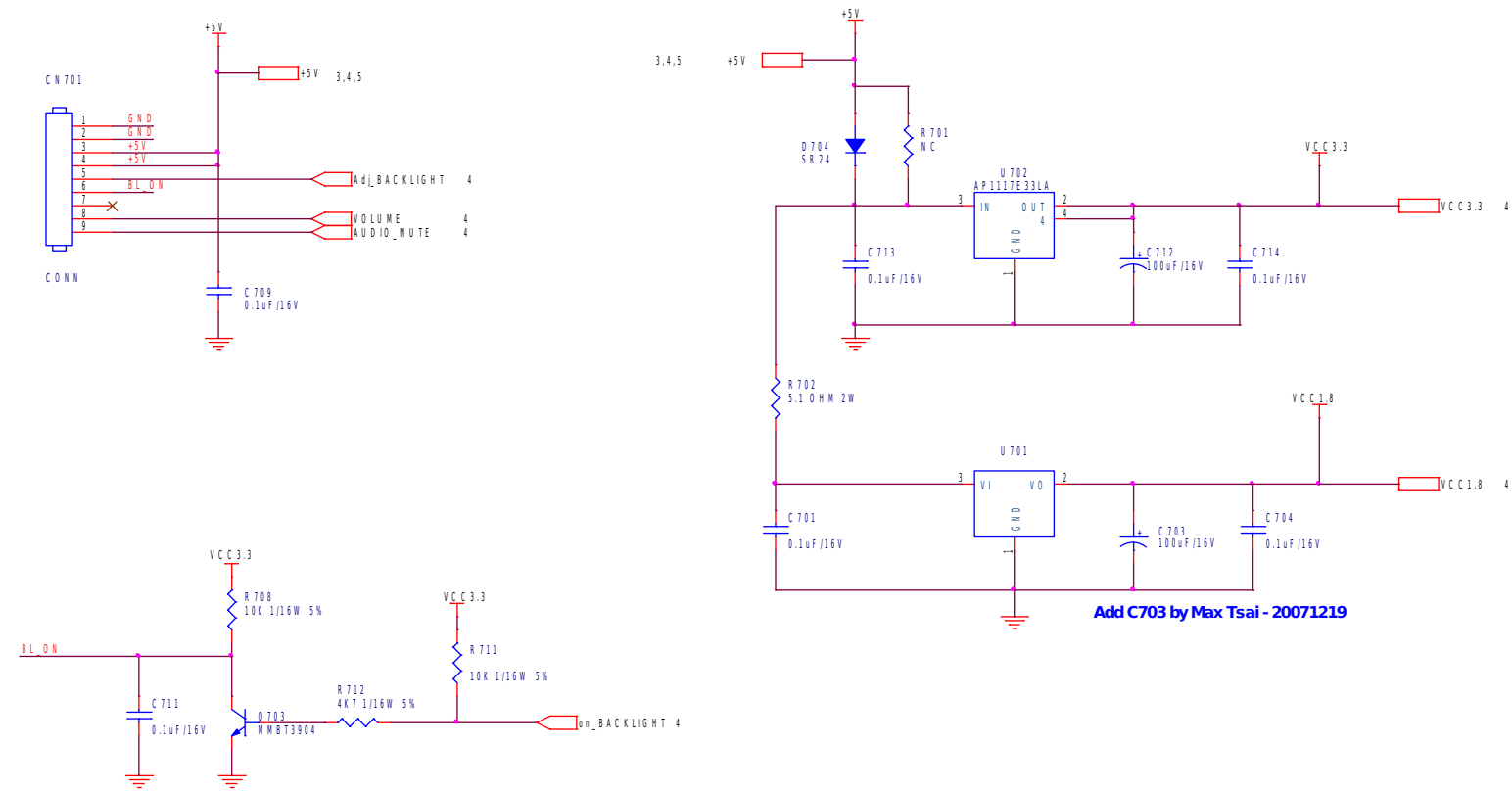
715G2670-1-2

TSUM05RCWHQ SCHEMATIC

WSXGA+/UXGA RSDS OUTPUT



TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL	2219P2	Size	B
TPV MODEL	TC72WPDBW1A1D1	Rev	D	
Key Component	1:2 TOP	PCB NAME	715G2670-1-2	
Date	Friday, January 04, 2008	Sheet	1.2 of 5	< >



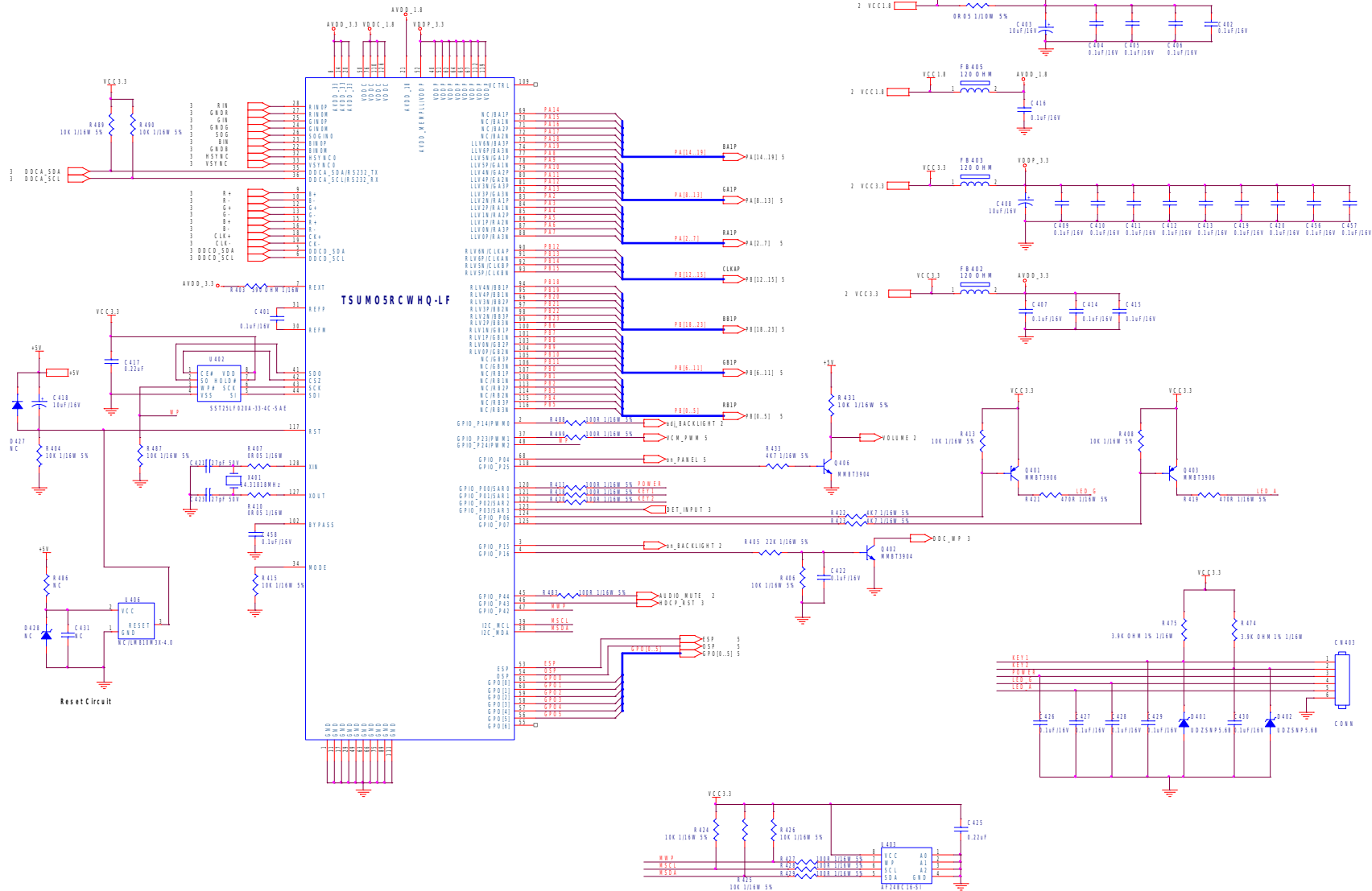
Add C703 by Max Tsai - 20071219



TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL	2219P2	Size	8
	TPV MODEL	TC72MPDBW1A101	Rev	D
Key Component	2. POWER	PCB NAME	715G2670-1-2	
Date	Friday, January 04, 2008	Sheet	2 of 5	< >



TPV (Top Victory Electronics Co., Ltd.)		OEM MODEL	2219P2	Size	Custom
TPV MODEL	TC72WPDSW1A1DI	Rev	D		
Key Component	3. INPUT	PCB NAME	715G-2670-1-2		
Date	Friday, January 04, 2008	Sheet	3 of 4		

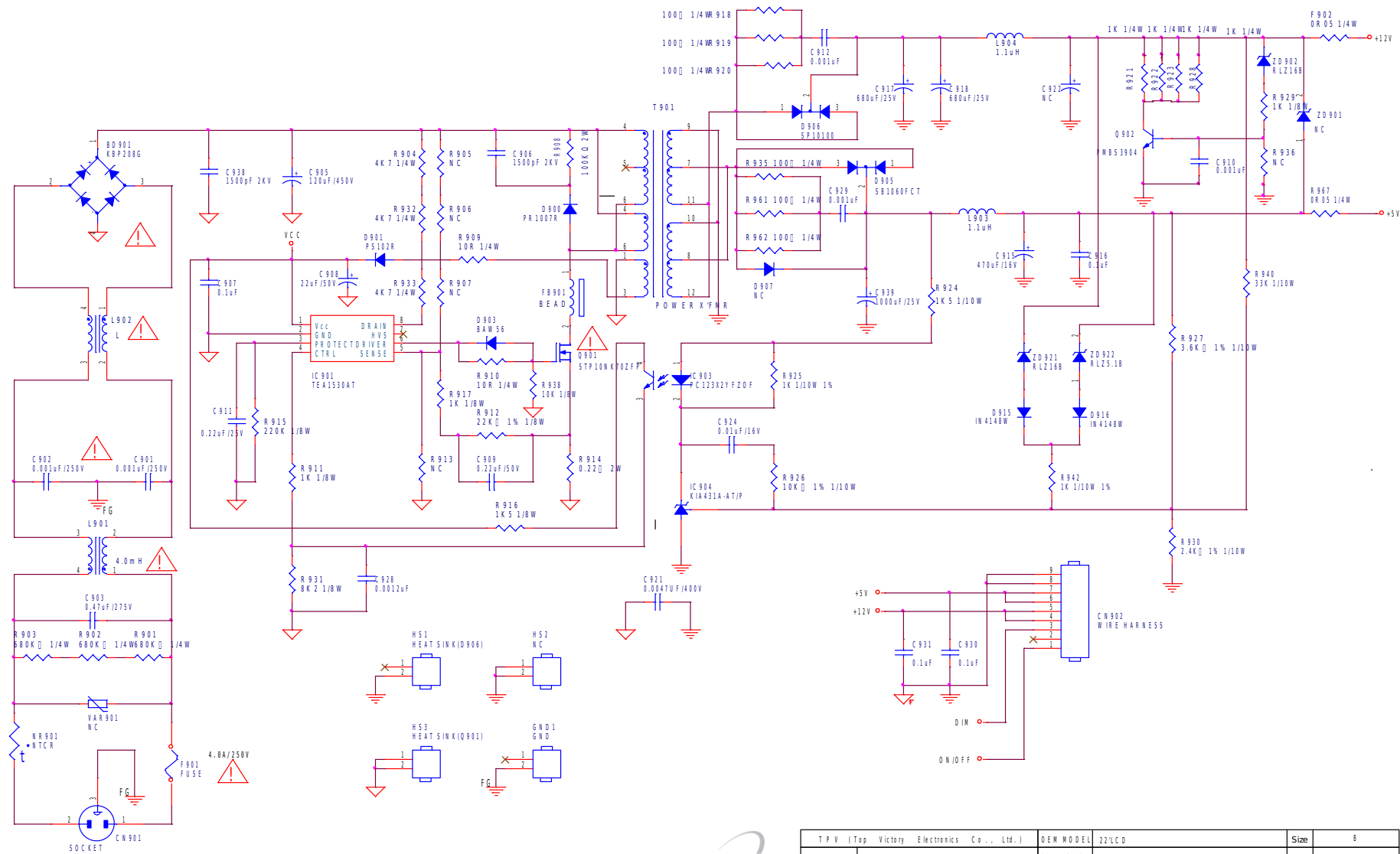






6.2 Power Board

715G2538-4



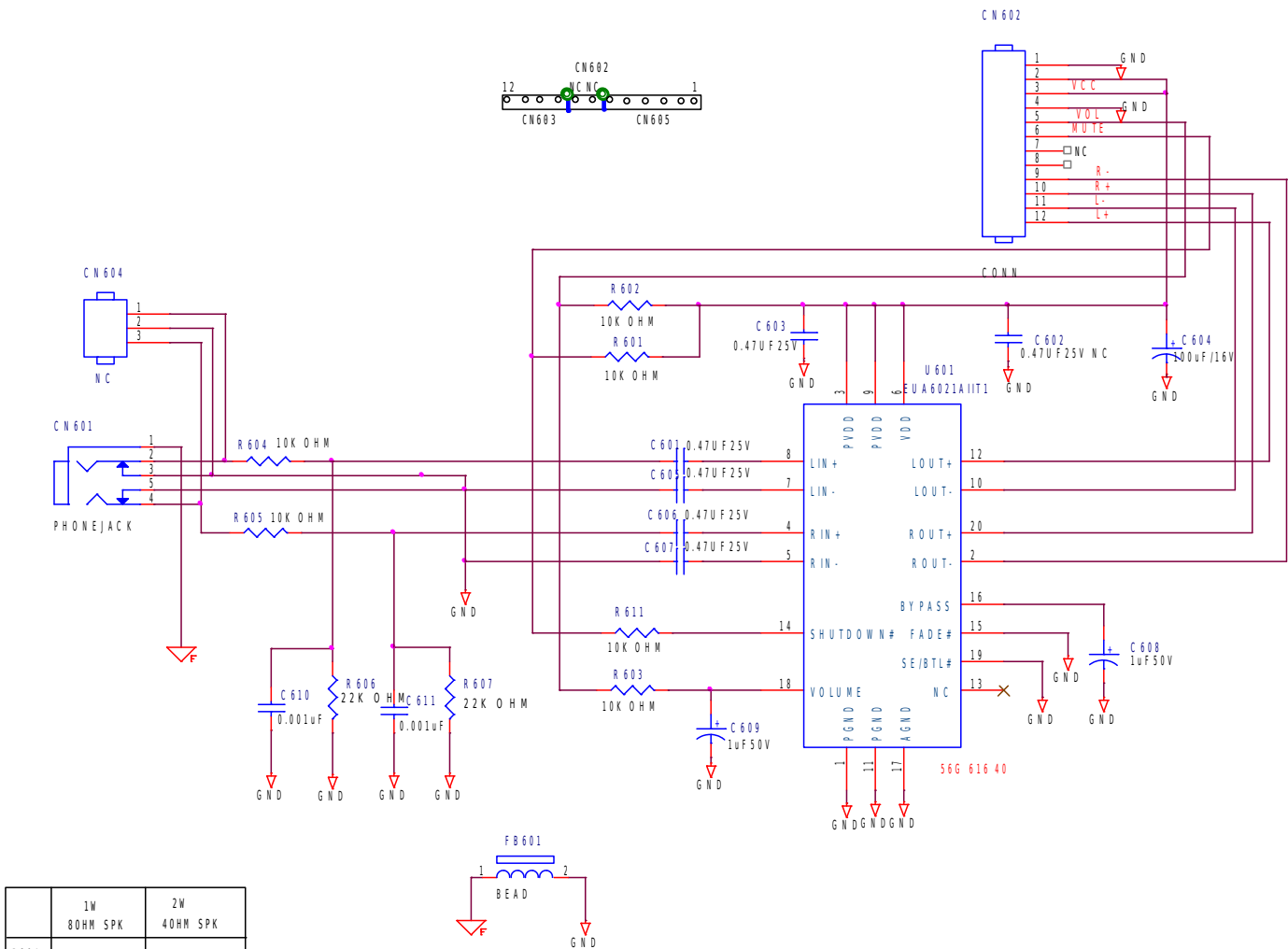
TPV (Top Victory Electronics Co., Ltd.)	DEM MODEL	22"LCD	Size	8
TPV MODEL	TPV MODEL	PWPC8C42CQD4	Rev	1
Key Component	PCB NAME	715G2538-4		
Date	Friday, December 07, 2007	Sheet	2 of 3	



27

6.3 Audio Board

715G2837-1-2

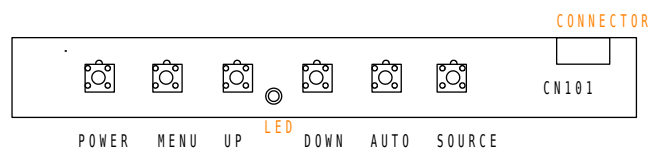
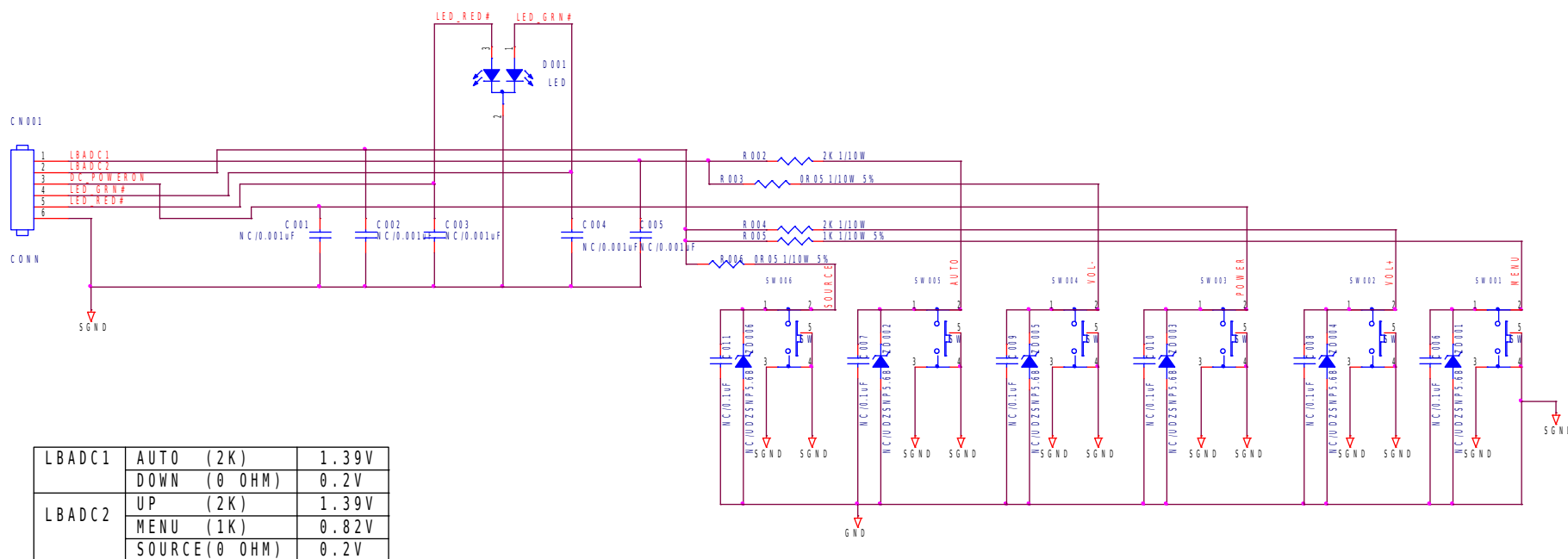


	1W	2W
	80HM SPK	40HM SPK
R604	65G 60291252	65G 60227352T
R605	65G 60262252	65G 60210352T



TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL	2219P2	Size	A4
TPV MODEL	AUPC70D8	Rev	8	
KeyComponent	D1 AUDIO	PCB NAME	715G2837-1-2	
Date	Tuesday, January 29, 2008	Sheet	2 of 2	

**715G2836-1**

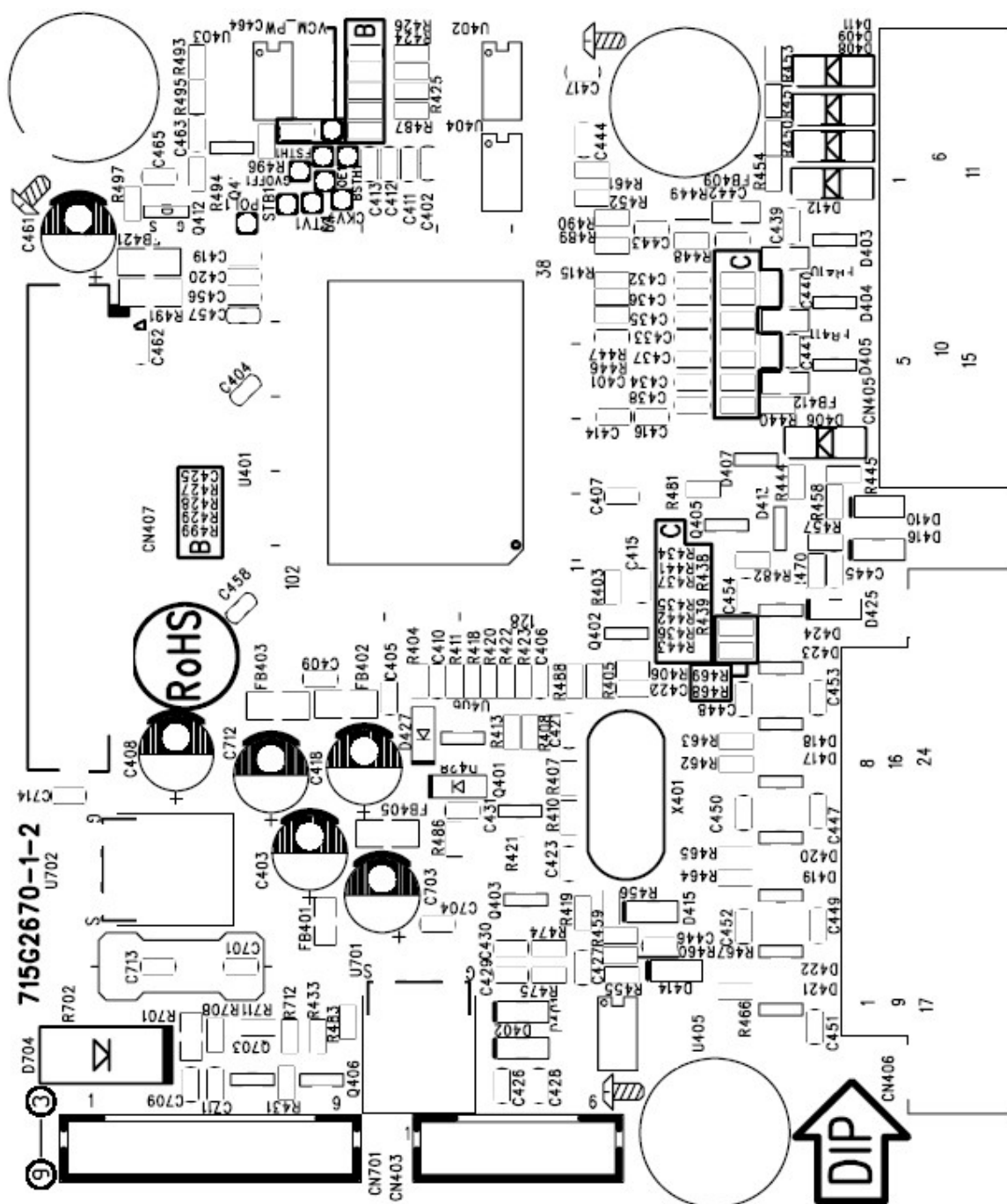


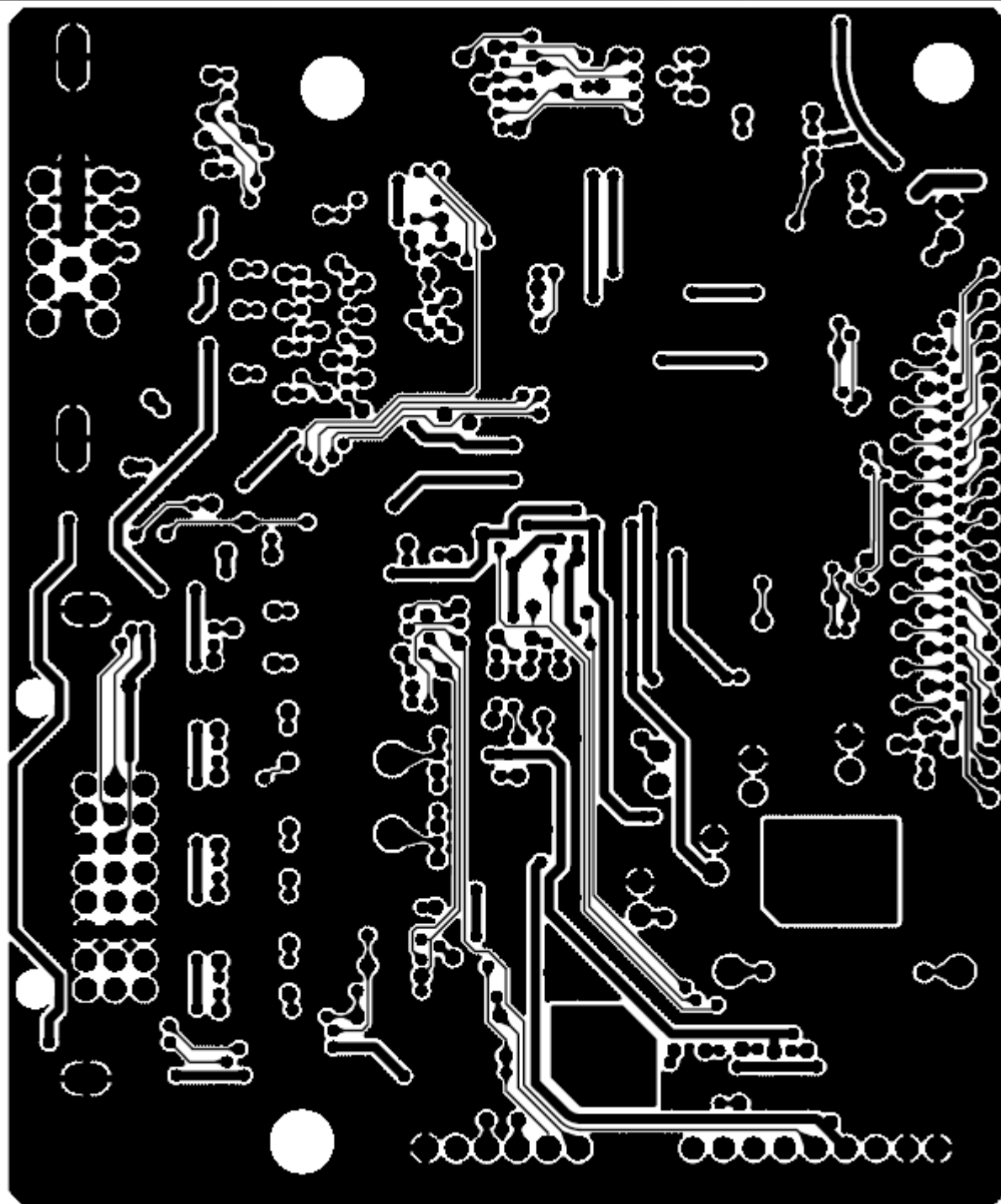
T P V ( Top Victory Electronics Co., , Ltd.)		DEM MODEL	Size	B
		TPV MODEL	Rev	A
Key Component	Q-SERIES 6KEY KEYPAD	PCB NAME	71SG2836-1	
Date	Monday December 03, 2007	Sheet	2 of 2	

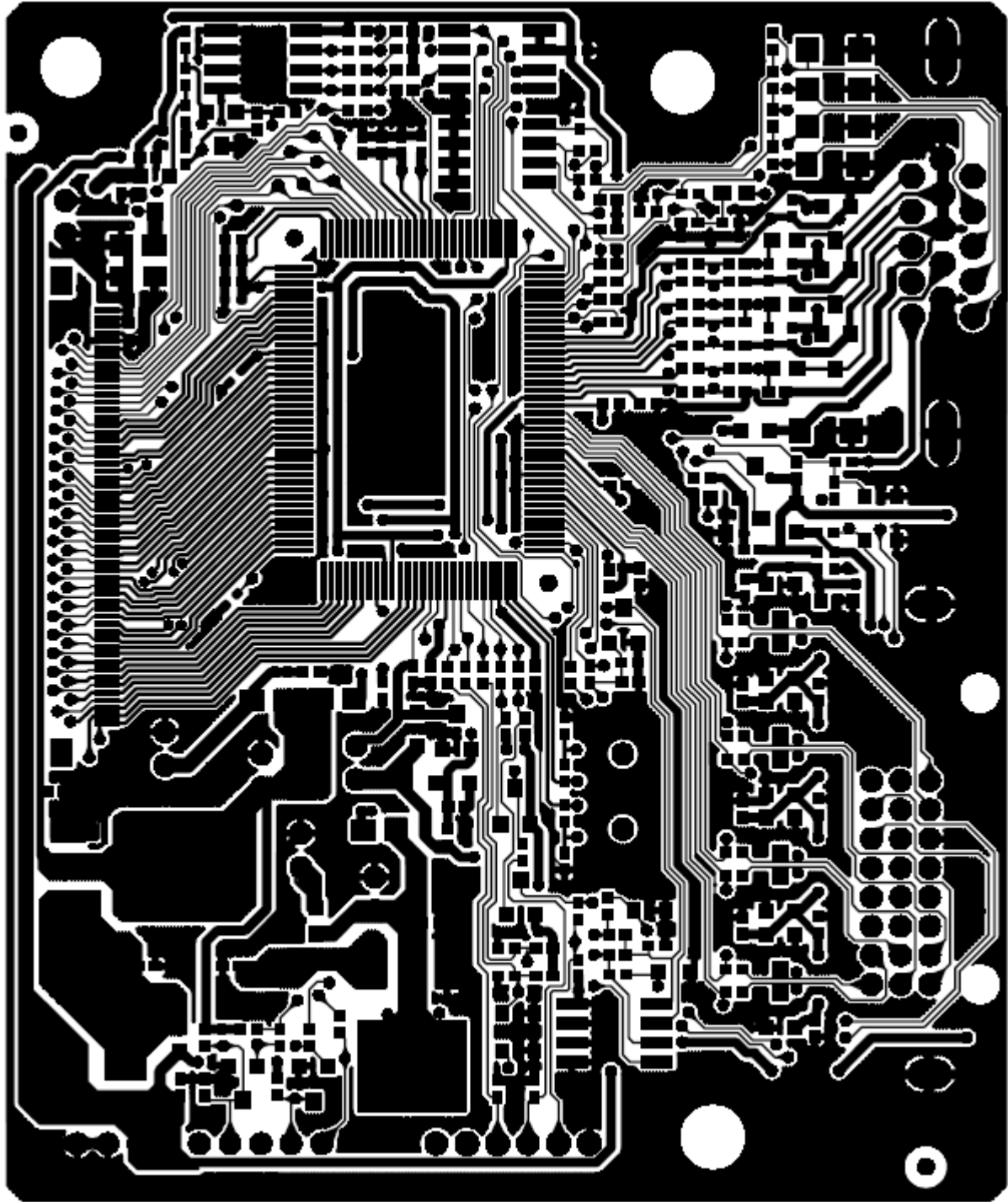
## 7. PCB Layout

## 7.1 Main Board

715G2670-1-2



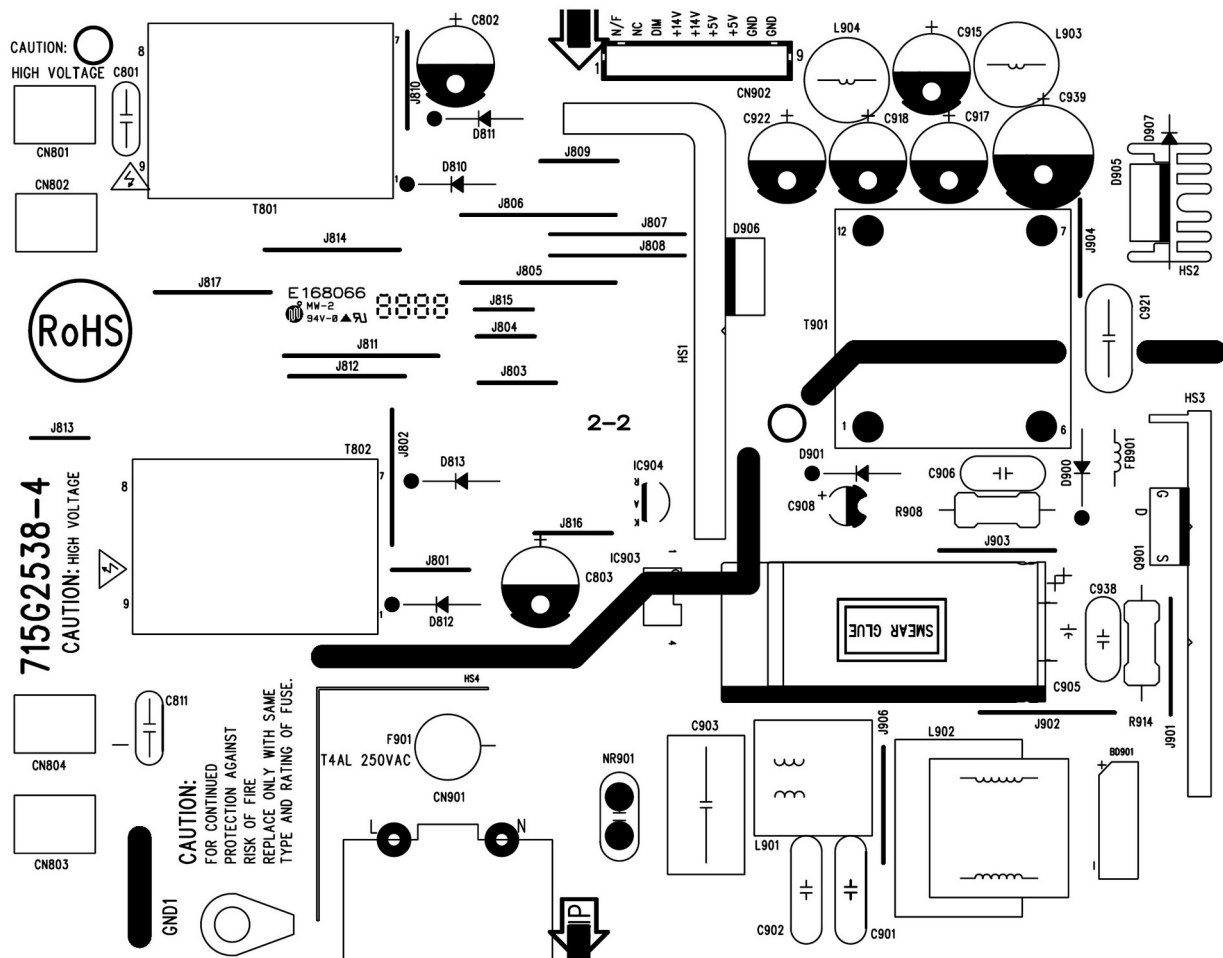


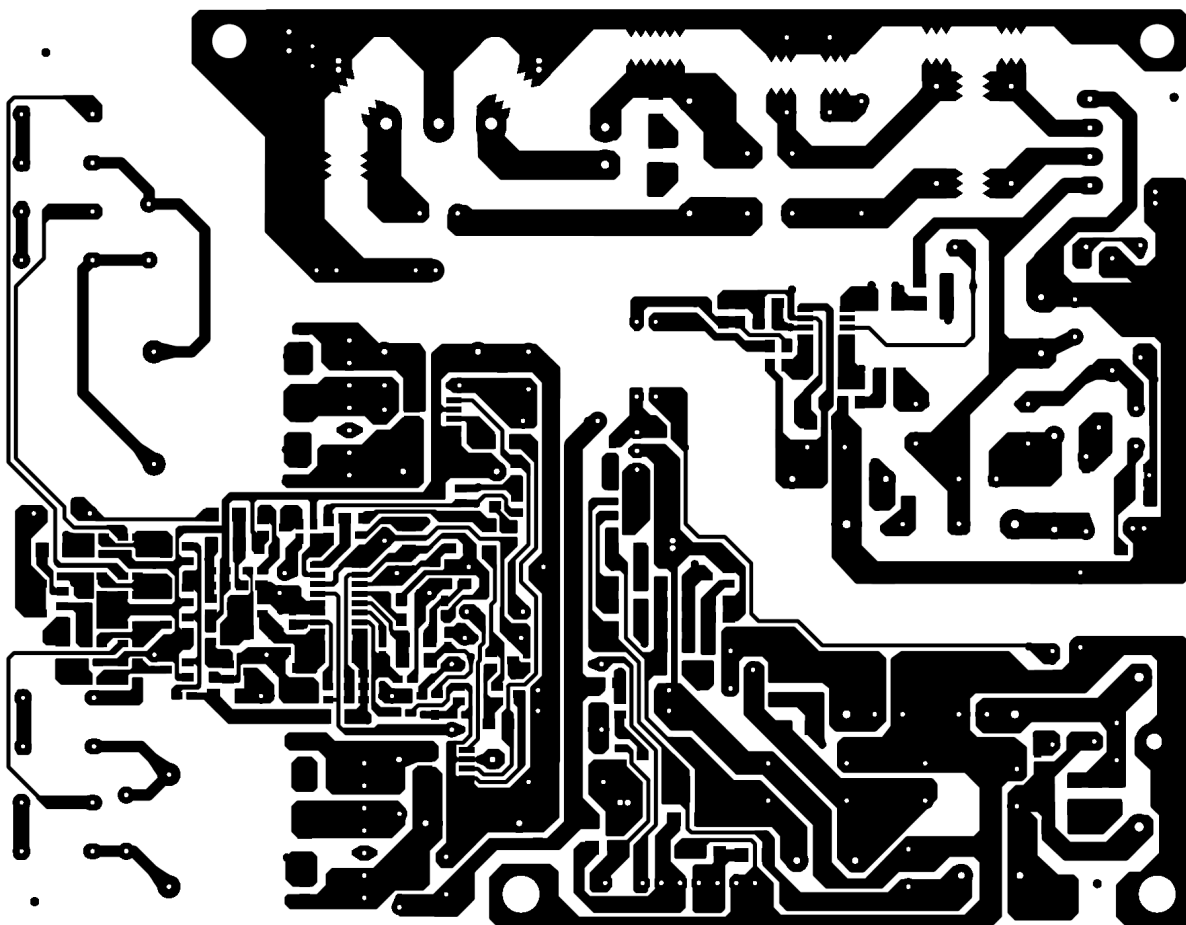
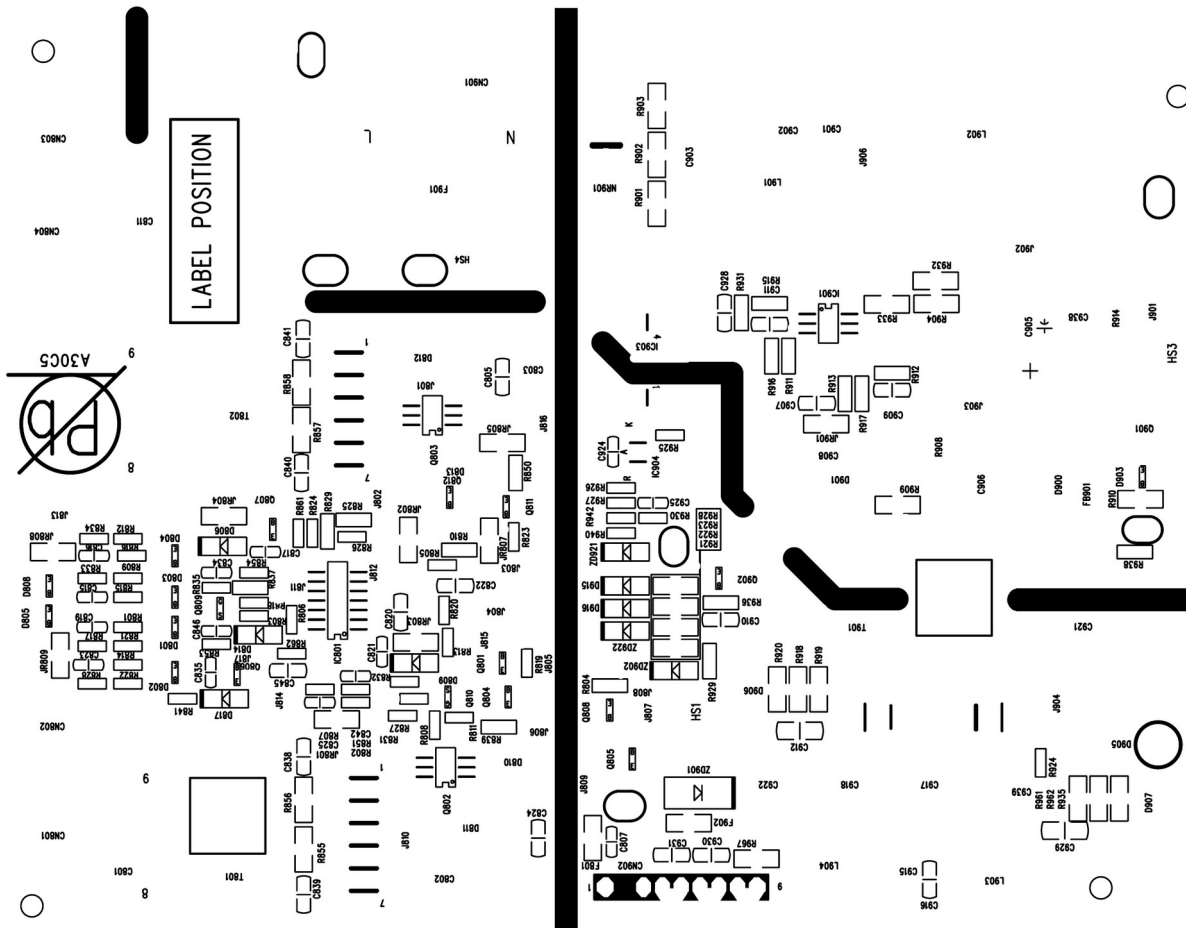




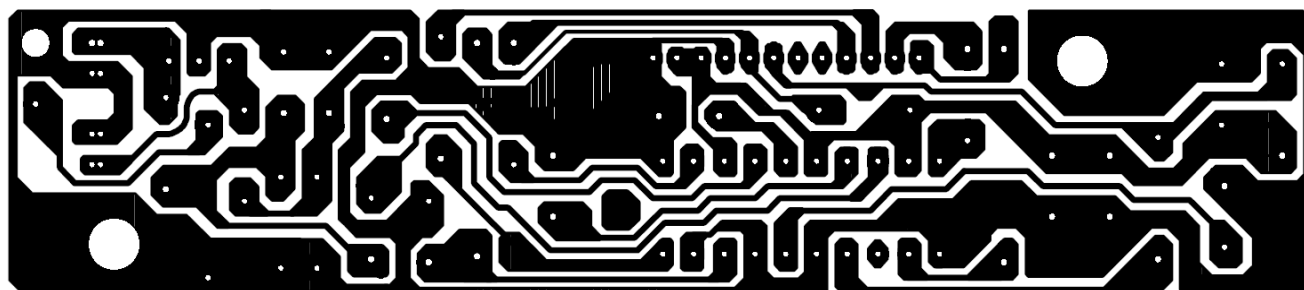
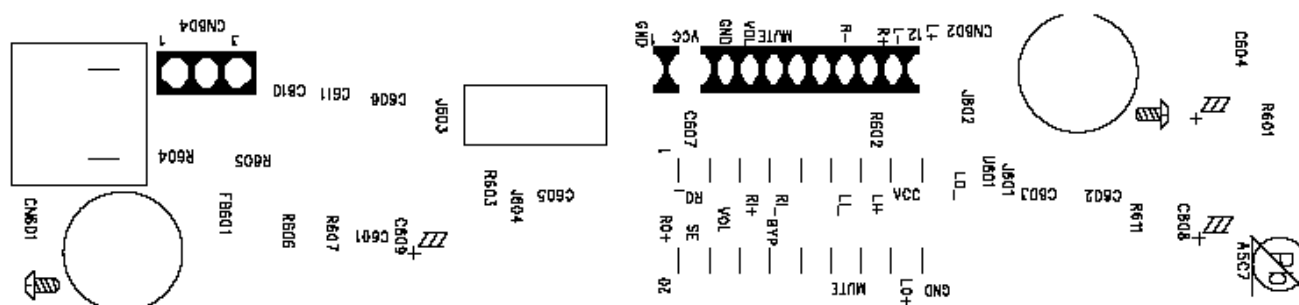
## 7.2 Power Board

715G2538-4



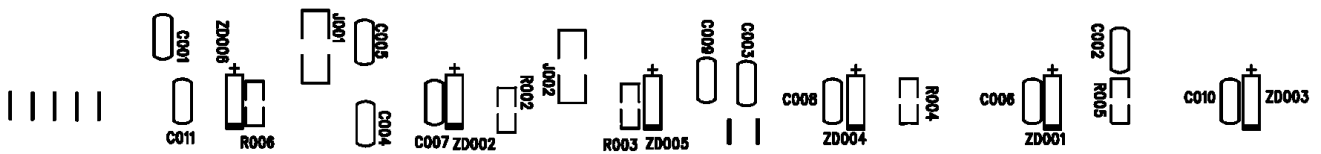
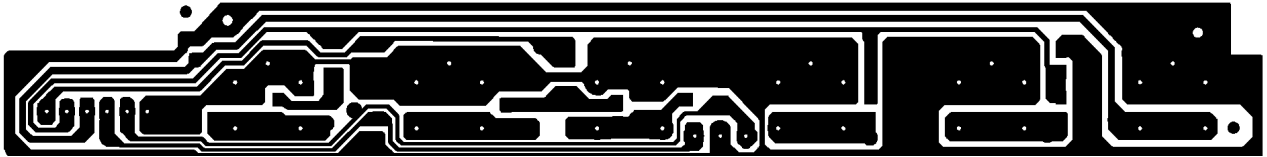
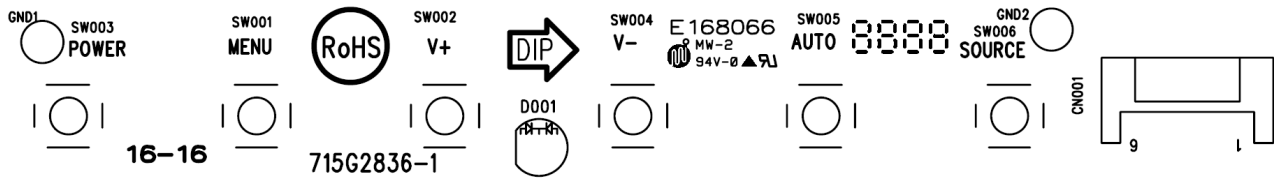


**715G2837-1-2**



## 7.4 Key Board

## 715G2836-1



## **8. Maintainability**

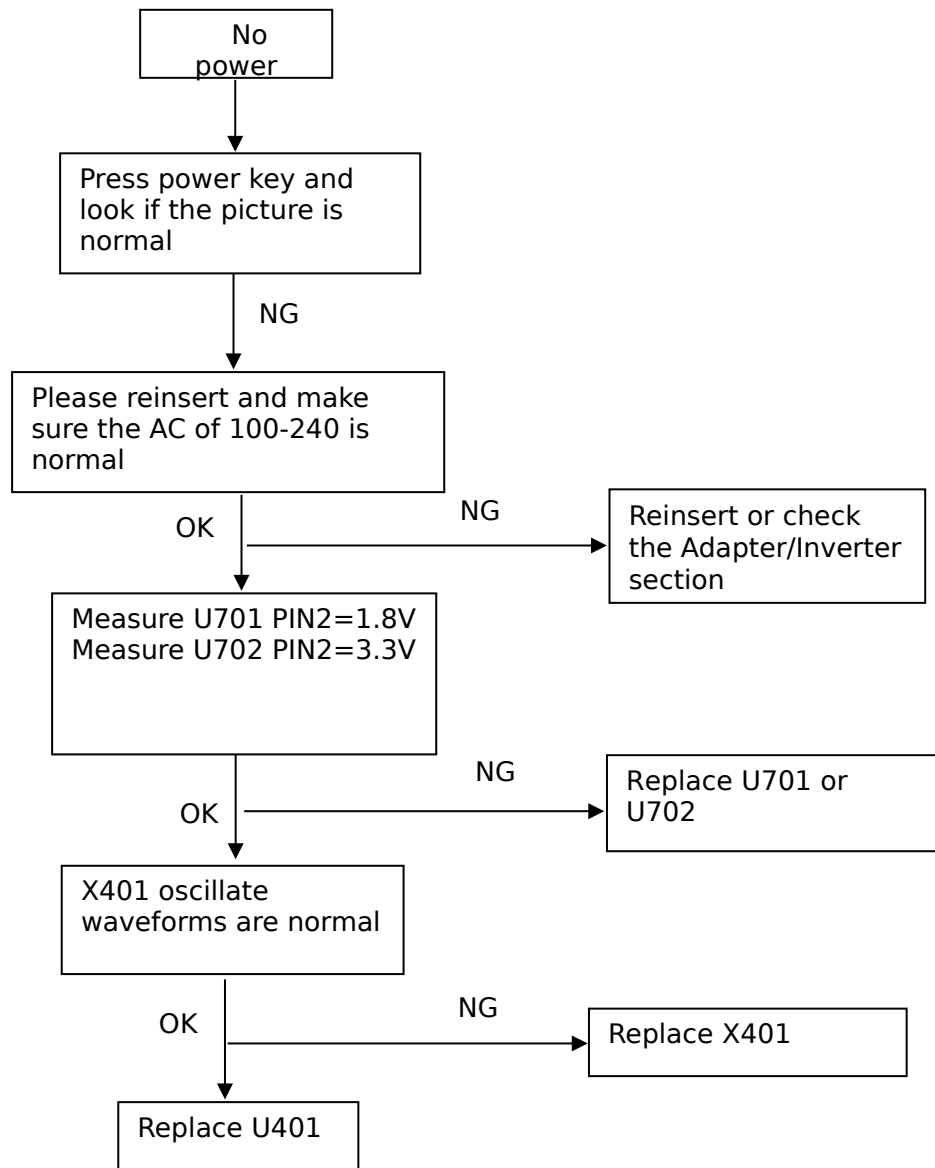
### **8.1 Equipments and Tools Requirement**

1. Voltmeter.
2. Oscilloscope.
3. Pattern Generator.
4. DDC Tool with an IBM Compatible Computer.
5. Alignment Tool.
6. LCD Color Analyzer.
7. Service Manual.
8. User Manual.

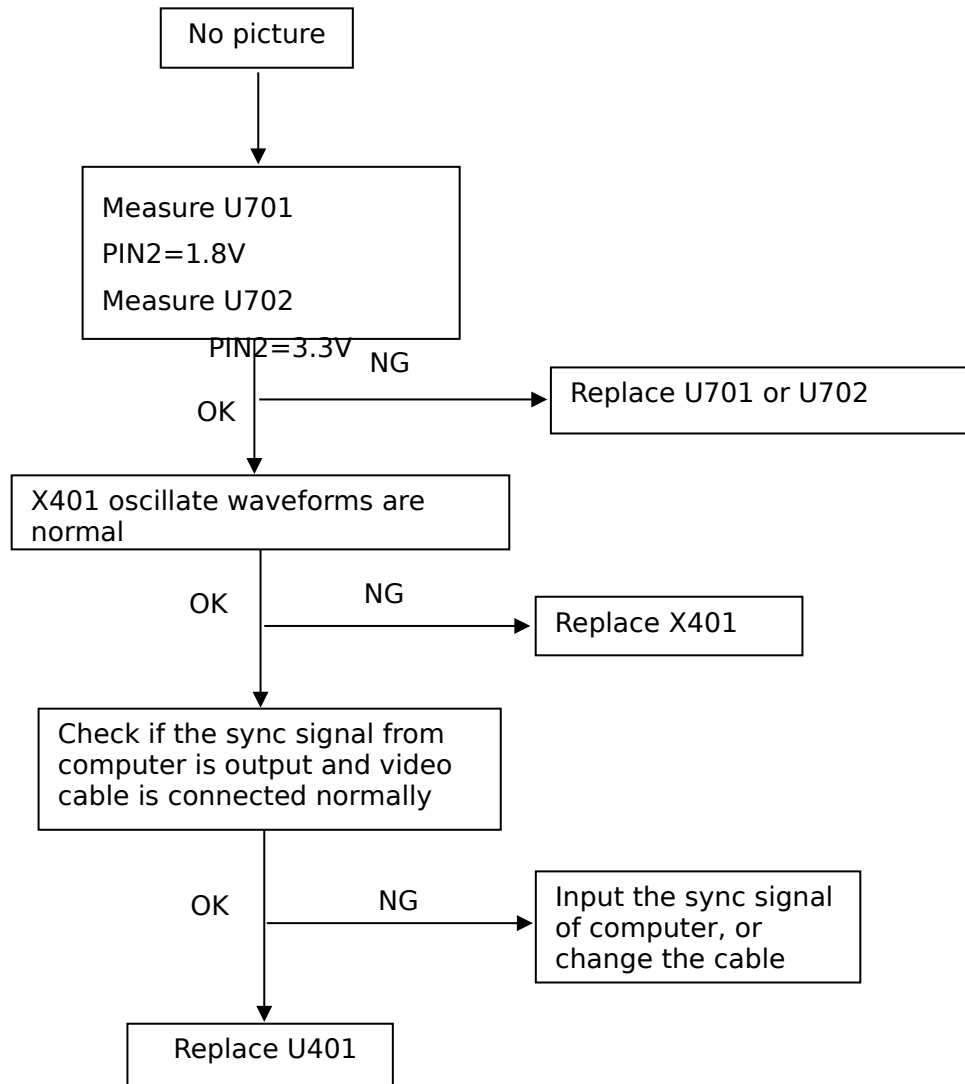
## 8.2 Trouble Shooting

### 8.2.1 Main Board

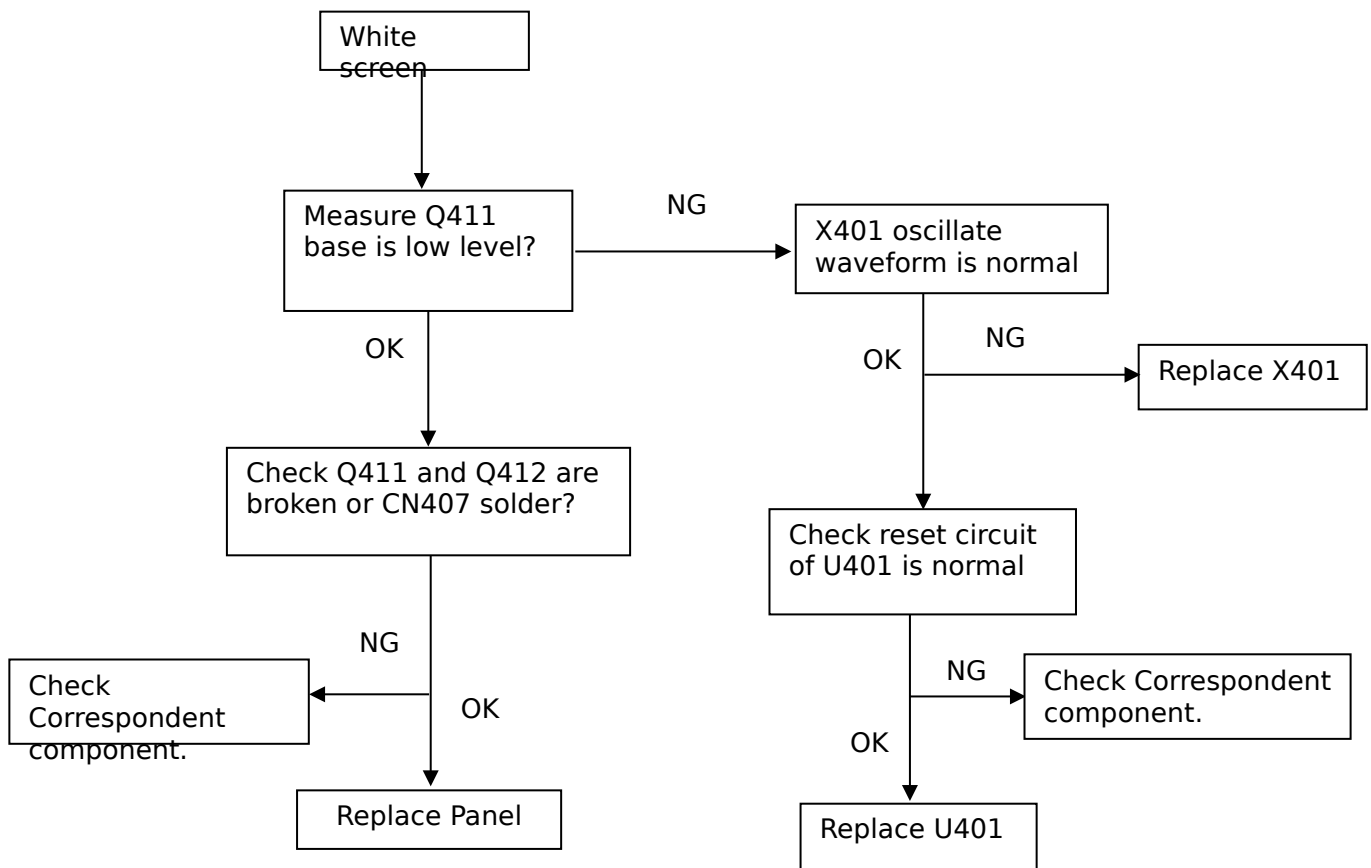
#### (1). No Power



## (2). No Picture



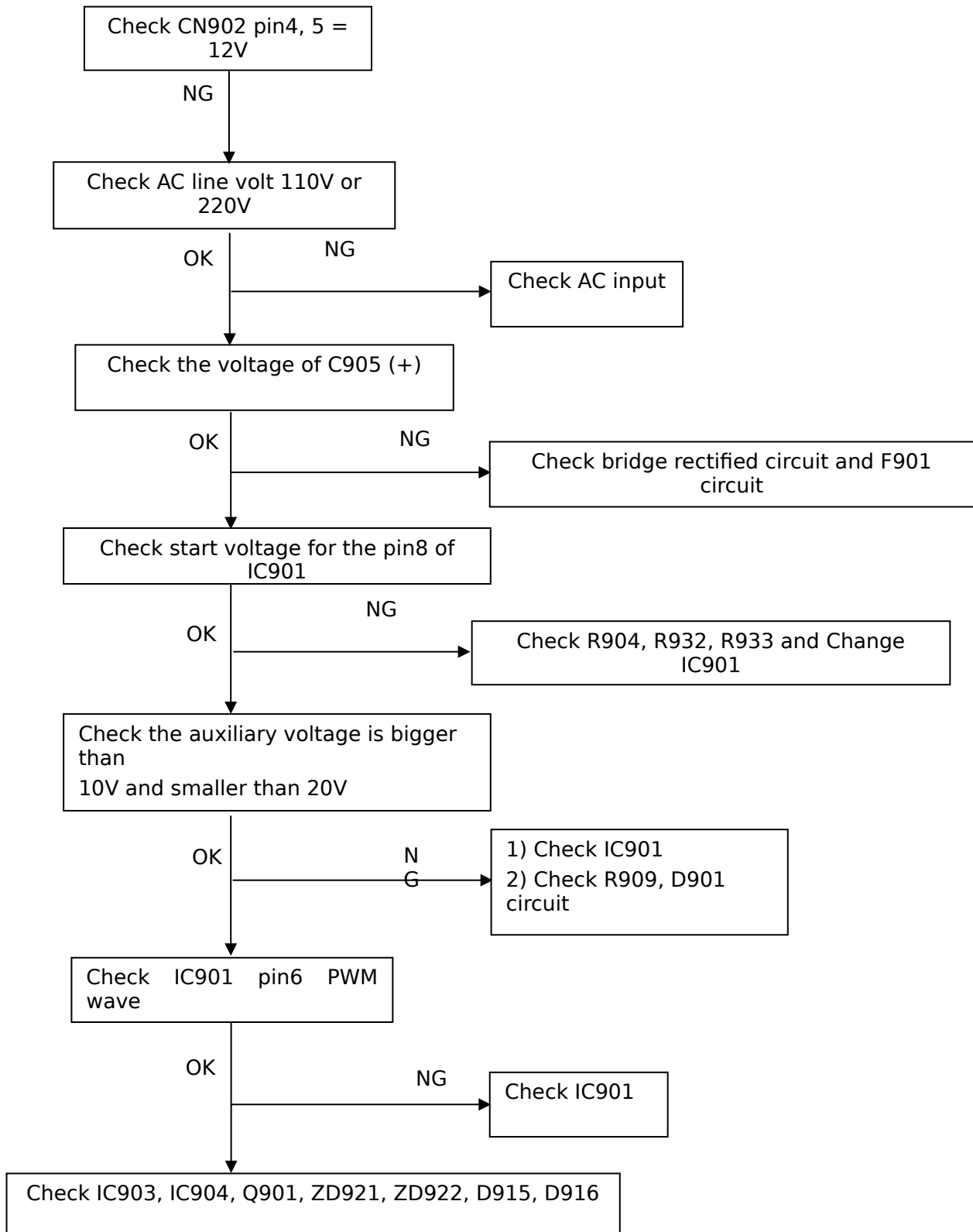
## (3). White screen



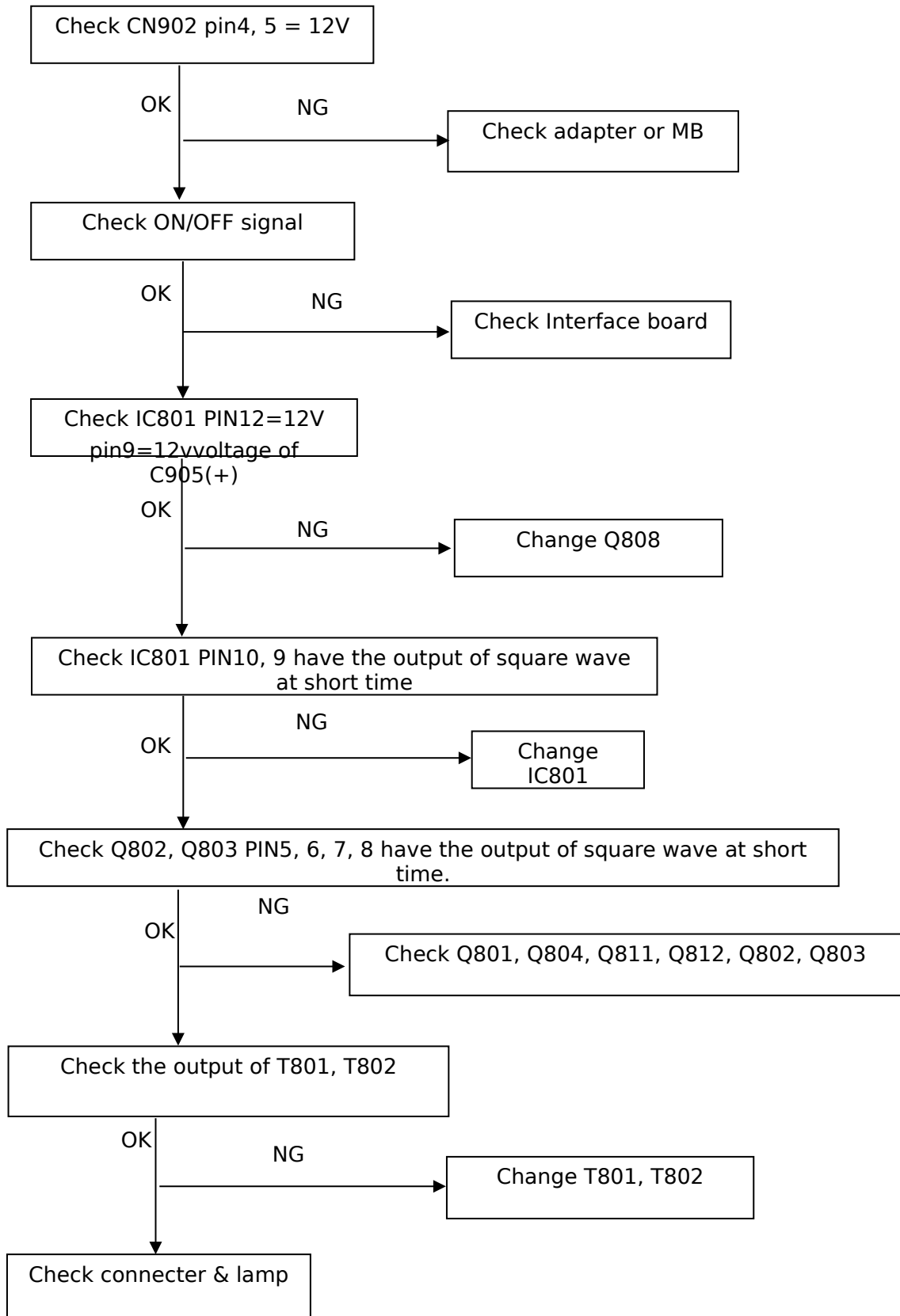


## 8.2.2 Power/Inverter Board

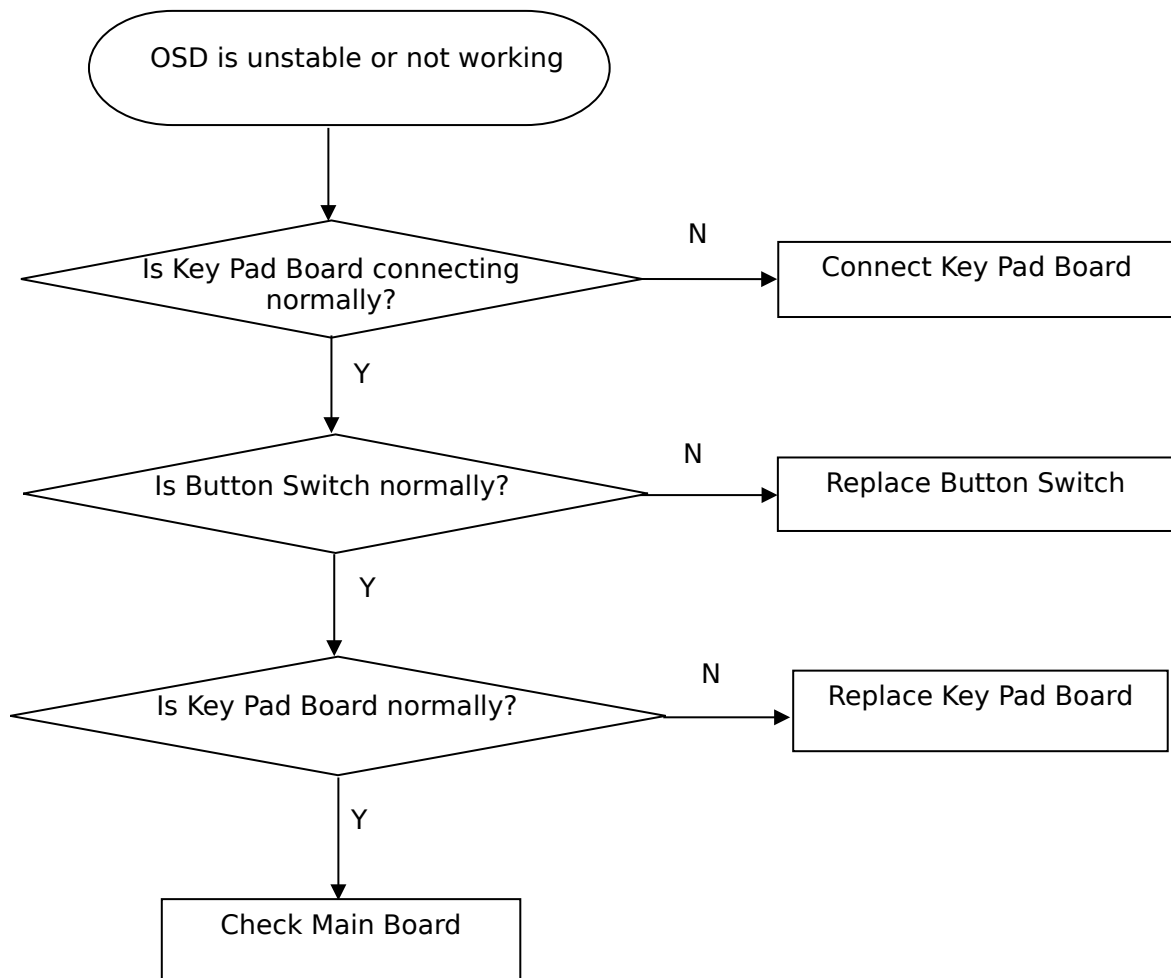
## 1.) No power



## 2.) W / LED, No Backlight



## 8.2.3 Key Board



## 9. White- Balance, Luminance Adjustment

Approximately 30 minutes should be allowed for warm up before proceeding white balance adjustment.

Before started adjust white balance , please set the Chroma-7120 MEM Channel 3 to Warm (6500K) color, MEM Channel 4 to Normal (7300K) color, MEM Channel 9 to Cool (9300K) color , and MEM Channel 10 to sRGB color ( our Warm color parameter is  $x = 313 \pm 20$ ,  $y = 329 \pm 20$ ,  $Y=200\text{cd/m}^2(\text{typ})$ ;

Normal color parameter is  $x = 301 \pm 20$ ,  $y = 317 \pm 20$ ,  $Y=200\text{cd/m}^2(\text{typ})$ ; Cool color parameter is

$x = 283 \pm 20$ ,  $y = 297 \pm 20$ ,  $Y=200\text{cd/m}^2(\text{typ})$ ; sRGB color parameter is  $x = 313 \pm 20$ ,  $y = 329 \pm 20$ ,

$Y= 200\text{cd/m}^2$ )

How to setting MEM channel you can reference to chroma 7120 user guide or simple use " SC" key and

" NEXT" Key to modify xyY value and use "ID" key to modify the TEXT description Following is the procedure

to do white-balance adjust .

### 2. Setting the color temp. you want

#### A. MEM.CHANNEL 3 (Warm color):

Warm color temp. parameter is  $x = 313 \pm 20$ ,  $y = 329 \pm 20$ ,  $Y=200\text{cd/m}^2$

#### B. MEM.CHANNEL 4 (Normal color):

Normal color temp. parameter is  $x = 301 \pm 20$ ,  $y = 317 \pm 20$ ,  $Y=200\text{cd/m}^2$

#### C. MEM.CHANNEL 9(Cool color):

Cool color temp. parameter is  $x = 283 \pm 20$ ,  $y = 297 \pm 20$ ,  $Y=200\text{cd/m}^2$

#### D. MEM.CHANNEL 10 (sRGB color):

sRGB color temp. parameter is  $x = 313 \pm 20$ ,  $y = 329 \pm 20$ ,  $Y= 200\text{cd/m}^2$

### 3. Into Factory mode of AOC 2219P2:

Press the MENU button, pull out the power cord, and then plug the power cord. Then the factory OSD will be at the left top of the panel.

### 4. Bias adjustment:

Set the **Contrast**  to 50; Adjust the **Brightness**  to 80.

### 5. Gain adjustment:

Move cursor to "-F-" and press MENU key

#### A. Adjust Warm (6500K) color-temperature

1. Switch the chroma-7120 to **RGB-Mode** (with press "MODE" button)
2. Switch the MEM.channel to Channel 3 (with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show  $x = 313 \pm 20$ ,  $y = 329 \pm 20$ ,  $Y=200\text{cd/m}^2$
4. Adjust the RED on factory window until chroma 7120 indicator reached the value  $R=100$
5. Adjust the GREEN on factory window until chroma 7120 indicator reached the value  $G=100$

6. Adjust the BLUE on factory window until chroma 7120 indicator reached the value B=100

7. Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance

=100±2

B. Adjust Normal (7300K) color-temperature

1. Switch the chroma-7120 to **RGB-Mode** (with press "MODE" button)

2. Switch the MEM.channel to Channel 4(with up or down arrow on chroma 7120)

3. The LCD-indicator on chroma 7120 will show  $x = 301 \pm 20$ ,  $y = 317 \pm 20$ ,  $Y=200\text{cd/m}^2$

4. Adjust the RED on factory window until chroma 7120 indicator reached the value R=100

5. Adjust the GREEN on factory window until chroma 7120 indicator reached the value G=100

6. Adjust the BLUE on factory window until chroma 7120 indicator reached the value B=100

7. Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance

=100±2

C. Adjust Cool (9300K) color-temperature

1. Switch the Chroma-7120 to **RGB-Mode** (with press "MODE" button)

2. Switch the MEM. Channel to Channel 9 (with up or down arrow on chroma 7120)

3. The LCD-indicator on chroma 7120 will show  $x = 283 \pm 20$ ,  $y = 297 \pm 20$ ,  $Y=200\text{cd/m}^2$

4. Adjust the RED on factory window until chroma 7120 indicator reached the value R=100

5. Adjust the GREEN on factory window until chroma 7120 indicator reached the value G=100

6. Adjust the BLUE on factory window until chroma 7120 indicator reached the value B=100

7. Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance

=100±2

D. Adjust sRGB color-temperature

1. Switch the chroma-7120 to **RGB-Mode** (with press "MODE" button)

2. Switch the MEM.channel to Channel 10 (with up or down arrow on chroma 7120)

3. The LCD-indicator on chroma 7120 will show  $x = 313 \pm 20$ ,  $y = 329 \pm 20$ ,  $Y= 200\text{cd/m}^2$

4. Adjust the RED on factory window until chroma 7120 indicator reached the value R=100

5. Adjust the GREEN on factory window until chroma 7120 indicator reached the value G=100

6. Adjust the BLUE on factory window until chroma 7120 indicator reached the value B=100

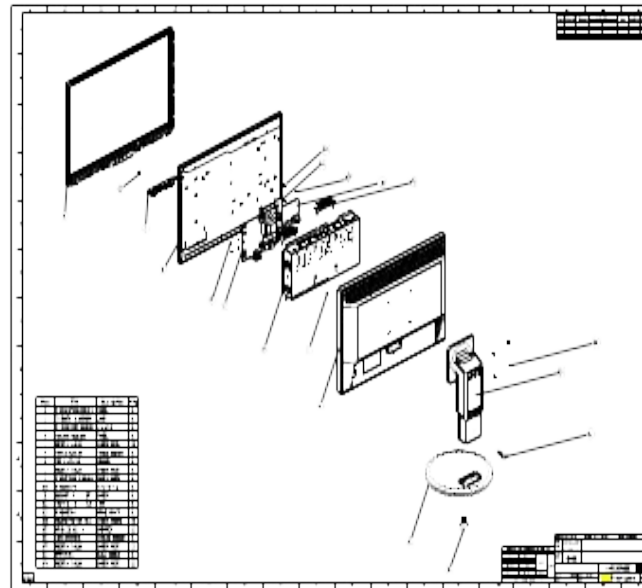
7. Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance

=100±2

E. Turn the Power-button off to quit from factory mode.



## 10. Monitor Exploded View



**11. BOM List****TC72MPDBW1A1DI**

Location	Part No.	Description
	001G6017 1 GP	THUMB-SCREW
	019G6034 1 GP	STOPPER PIN
	040G 581 26704	SHIPPING LABEL
	040G 58162461A	EPA LABEL
	041G 68508 A	CONTROL CARD
	044G9003214	CORNER PAPER
	044GH600 1	HANDLE 2
	045G 77 3	PE PACKING
	050G 600 4	HANDLE 1
	052G 1150 C	INSULATING TAPE
	052G 1186	SMALL TAPE
	052G 1209 A	200MINIUM TAPE
	052G 1211 A	165MINIUM TAPE
	052G6019 1	INSULATING TAPE
	070GHDCP500HDC	HDCP CODE
E078	078G 311 16 G	SPEAKER 4 OHM 2.5 W L: 230MM 57.5X23MM
E08902	089G 725GAA DB	D-SUB
	089G1745CAA AC	DVI CABLE
E08907	089G176J 55 1A	FFC CABLE 55PIN
	089G404A15N IS	POWER CORD
E09502	095G8014 6XH15	WIRE HARNESS 6P(PH)-6P(PH)
	0M1G1730 6120	SCREW,42-D020523
	0M1G1730 6120	SCREW,42-D020523
	0M1G1730 6120	SCREW,42-D020523
	0M1G1730 6120	SCREW,42-D020523
	0M1G1740 14 47 CR3	SCREW
	750GLVC0KZ131N	PANEL TPM220Z1-PS3 C1A FQ TPV
	A33G0313ABJ 1L0100	KEY PAD
	A34G0530ABJ 4B0100	REAR COVER22"
	A34G0645BBLA1B0130	BEZEL(L22W-8Q1A)
	A37G0058 1	BASE ASS'Y
	A37G0059 2	HINGE ASSMBLY
	AUPC7QD8	AUDIO BOARD
	040G 457624 1B	LABEL-CPU
CN603	033G3802 4	WAFER EH-4
CN605	033G3802 6	WAFER



	051G 200 1	OIL FOR DISAPPEAR
U601	056G 616 40	IC EUA6021AIT1 2.5W*2 DIP-20
CN601	088G 30214K	PHONE JACK 5PIN
R601	061G 60210352T	CFR 10KOHM +-5% 1/6W
R602	061G 60210352T	CFR 10KOHM +-5% 1/6W
R603	061G 60210352T	CFR 10KOHM +-5% 1/6W
R604	061G 60210352T	CFR 10KOHM +-5% 1/6W
R605	061G 60210352T	CFR 10KOHM +-5% 1/6W
R611	061G 60210352T	CFR 10KOHM +-5% 1/6W
R606	061G 60222352T	22KOHM 5% 1/6W
R607	061G 60222352T	22KOHM 5% 1/6W
C610	065G 444102 5T	1000PF 10% 50V CERAMIC
C611	065G 444102 5T	1000PF 10% 50V CERAMIC
C601	065G250K4742GT	CAP JC 0.47UF K 25V X7R
C602	065G250K4742GT	CAP JC 0.47UF K 25V X7R
C603	065G250K4742GT	CAP JC 0.47UF K 25V X7R
C605	065G250K4742GT	CAP JC 0.47UF K 25V X7R
C606	065G250K4742GT	CAP JC 0.47UF K 25V X7R
C607	065G250K4742GT	CAP JC 0.47UF K 25V X7R
C604	067G215B101 3T	CAP 105°C 100UF M 16V
FB601	071G 55 23	BEAD
J603	095G 90 23	JUMP WIRE
J604	095G 90 23	JUMP WIRE
J601	095G 90 23	JUMP WIRE
J602	095G 90 23	JUMP WIRE
	715G2837 1 2	AUDIO BOARD PCB 25*109.5MM 14PCS/PNLS FR-1
	Q90G6258 2	HEAT SINK
	CBPC8MMPA1Q1	CONVERSION G2670-D-2-X-5-080102
	040G 45762412B	CBPC LABEL
CN403	033G3802 6	WAFER
CN701	033G3802 9	WAFER 9P RIGHT ANELE PITCH
R702	061G152M519 64	5.1OHM 2W
CN405	088G 35315F H	D-SUB 15PIN
CN406	088G 35424F C	DVI 24PIN CONN F WITH SCREWS
X401	093G 2253B H	XAT01431AFI1H-3OHX AT-49 14.31818MHZ
CN407	033G801955Y H HC	0.5 PITCH 55P SMT
U401	056G 562199	IC TSUMO5RCWHQ-LF PQFP-128
U701	056G 56327A	IC AP1117E18LA SOT223-3L ANACHIP
U702	056G 585 4A	IC AP1117E33L-13

U404	056G1133 34	M24C02-WMN6TP
U405	056G1133 34	M24C02-WMN6TP
U402	056G1133 81(WA8M8TCMDQ4)	SST25LF020A-33-4C-SAE
U403	056G1133 89	IC AF24BC16-SI 16K SOIC-8
Q402	057G 417511	MMBT3904
Q406	057G 417511	MMBT3904
Q703	057G 417511	MMBT3904
Q401	057G 417512	MMBT3906
Q403	057G 417512	MMBT3906
Q411	057G 417512	MMBT3906
Q412	057G 763501	FET AM2321P ANALOG POWER
R407	061G0402000	RST CHIPR 0 OHM +-5% 1/16W
R410	061G0402000	RST CHIPR 0 OHM +-5% 1/16W
R462	061G0402100	RST CHIPR 10 OHM +-5% 1/16W
R463	061G0402100	RST CHIPR 10 OHM +-5% 1/16W
R464	061G0402100	RST CHIPR 10 OHM +-5% 1/16W
R465	061G0402100	RST CHIPR 10 OHM +-5% 1/16W
R466	061G0402100	RST CHIPR 10 OHM +-5% 1/16W
R467	061G0402100	RST CHIPR 10 OHM +-5% 1/16W
R468	061G0402100	RST CHIPR 10 OHM +-5% 1/16W
R469	061G0402100	RST CHIPR 10 OHM +-5% 1/16W
R411	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R418	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R420	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R427	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R428	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R429	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R441	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R442	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R443	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R453	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R454	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R455	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R456	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R483	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R488	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R499	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R470	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W
R447	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W

R446	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W
R445	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W
R452	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R431	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R426	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R425	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R424	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R415	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R413	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R408	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R404	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R406	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R487	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R711	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R489	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R490	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R493	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R494	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R497	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R708	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R461	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R457	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R448	061G0402222	RST CHIPR 2.2 KOHM +-5% 1/16W
R458	061G0402222	RST CHIPR 2.2 KOHM +-5% 1/16W
R449	061G0402222	RST CHIPR 2.2 KOHM +-5% 1/16W
R405	061G0402223	RST CHIPR 22 KOHM +-5% 1/16W
R403	061G0402390 0F	RST CHIP 390R 1/16W 1%
R474	061G0402390 1F	RST CHIPR 3.9KOHM +-1% 1/16W
R475	061G0402390 1F	RST CHIPR 3.9KOHM +-1% 1/16W
R419	061G0402471	RST CHIPR 470 OHM +-5% 1/16W
R421	061G0402471	RST CHIPR 470 OHM +-5% 1/16W
R437	061G0402471	RST CHIPR 470 OHM +-5% 1/16W
R422	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R423	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R433	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R444	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R450	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R451	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R459	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R460	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W

R496	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R712	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R495	061G0402513	RST CHIP 51K 1/16W 5%
R434	061G0402560	RST CHIP 56R 1/16W 5%
R435	061G0402560	RST CHIP 56R 1/16W 5%
R436	061G0402560	RST CHIP 56R 1/16W 5%
R438	061G0402750	RST CHIPR 75 OHM +-5% 1/16W
R439	061G0402750	RST CHIPR 75 OHM +-5% 1/16W
R440	061G0402750	RST CHIPR 75 OHM +-5% 1/16W
FB401	061G0603000	RST CHIPR 0 OHM +-5% 1/10W
FB410	061G0603000	RST CHIPR 0 OHM +-5% 1/10W
FB411	061G0603000	RST CHIPR 0 OHM +-5% 1/10W
FB412	061G0603000	RST CHIPR 0 OHM +-5% 1/10W
R491	061G0805391	390 OHM 1/10W 1%
C435	065G0402102 32	1000PF +-10% 50V X7R
C428	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C427	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C426	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C412	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C413	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C414	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C415	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C416	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C419	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C420	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C422	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C429	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C454	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C456	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C457	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C458	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C462	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C465	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C701	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C704	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C709	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C711	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C713	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C714	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C430	065G0402104 15	MLCC 0402 0.1UF K 16V X5R

C439	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C440	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C441	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C445	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C447	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C448	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C449	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C450	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C451	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C452	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C453	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C411	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C401	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C402	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C404	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C405	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C406	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C407	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C409	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C410	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C463	065G0402105 A5	CAP 0402 1UF K 10V X5R
C443	065G0402221 31	CAP:CER 220PF 5% 50V SM
C446	065G0402224A5T	MLCC 0402 0.22UF K 10V X
C444	065G0402224A5T	MLCC 0402 0.22UF K 10V X
C425	065G0402224A5T	MLCC 0402 0.22UF K 10V X
C417	065G0402224A5T	MLCC 0402 0.22UF K 10V X
C423	065G0402270 31	0402 27PF J 50V NPO
C421	065G0402270 31	0402 27PF J 50V NPO
C442	065G0402330 31	CHIP CAP 0402 33PF J 50V NPO
C438	065G0402473 12	CHIP 0.047UF 16V X7R
C437	065G0402473 12	CHIP 0.047UF 16V X7R
C436	065G0402473 12	CHIP 0.047UF 16V X7R
C434	065G0402473 12	CHIP 0.047UF 16V X7R
C433	065G0402473 12	CHIP 0.047UF 16V X7R
C432	065G0402473 12	CHIP 0.047UF 16V X7R
FB409	071G 56G151 MD	CHIP BEAD
FB405	071G 56K121	CHIP BEAD
FB403	071G 56K121	CHIP BEAD
FB402	071G 56K121	CHIP BEAD
FB421	071G 56K121	CHIP BEAD

D407	093G 64 42 P	BAV70 SOT23 BY PAN JIT
D413	093G 64 42 P	BAV70 SOT23 BY PAN JIT
D405	093G 6433P	BAV99
D404	093G 6433P	BAV99
D403	093G 6433P	BAV99
D417	093G 6433P	BAV99
D418	093G 6433P	BAV99
D419	093G 6433P	BAV99
D420	093G 6433P	BAV99
D421	093G 6433P	BAV99
D422	093G 6433P	BAV99
D423	093G 6433P	BAV99
D424	093G 6433P	BAV99
D406	093G 39S 24 T	RLZ 5.6B LLDS
D408	093G 39S 24 T	RLZ 5.6B LLDS
D409	093G 39S 24 T	RLZ 5.6B LLDS
D411	093G 39S 24 T	RLZ 5.6B LLDS
D412	093G 39S 24 T	RLZ 5.6B LLDS
D425	093G 39S 34 T	UDZSNP5.6B ROHM
D416	093G 39S 34 T	UDZSNP5.6B ROHM
D415	093G 39S 34 T	UDZSNP5.6B ROHM
D414	093G 39S 34 T	UDZSNP5.6B ROHM
D410	093G 39S 34 T	UDZSNP5.6B ROHM
D401	093G 39S 34 T	UDZSNP5.6B ROHM
D402	093G 39S 34 T	UDZSNP5.6B ROHM
D704	093G2004 2	DIODE SR24
	715G2670 1 2	MAIN BOARD PCB FR4 80X67X1.6MM DS
	KEPC7AC3	KEY BOARD
CN001	033G3802 6H	WAFER 6P RIGHT ANGLE PITCH 2.0
SW004	077G 600 1GCJ	TACT SWITCH TSPB-2 -NP
SW003	077G 600 1GCJ	TACT SWITCH TSPB-2 -NP
SW002	077G 600 1GCJ	TACT SWITCH TSPB-2 -NP
SW001	077G 600 1GCJ	TACT SWITCH TSPB-2 -NP
SW006	077G 600 1GCJ	TACT SWITCH TSPB-2 -NP
SW005	077G 600 1GCJ	TACT SWITCH TSPB-2 -NP
LED001	081G 121HT GP	LED 3PIN 3Φ GP32032M/G307-ZY-50D
R006	061G0603000	RST CHIPR 0 OHM +-5% 1/10W
R003	061G0603000	RST CHIPR 0 OHM +-5% 1/10W
R005	061G0603102	RST CHIPR 1K OHM +-5% 1/10W
R002	061G0603202	RST CHIPR 2 KOHM +-5% 1/10W

R004	061G0603202	RST CHIPR 2 KOHM +-5% 1/10W
J001	061G1206000	RST CHIPR 0 OHM +-5% 1/4W
J002	061G1206000	RST CHIPR 0 OHM +-5% 1/4W
C001	065G0603151 32	CHIP 150PF 50V X7R
C003	065G0603151 32	CHIP 150PF 50V X7R
C004	065G0603151 32	CHIP 150PF 50V X7R
C005	065G0603151 32	CHIP 150PF 50V X7R
C011	065G0603151 32	CHIP 150PF 50V X7R
	715G2836 1	KEY BOARD PCB FR1 127X17X1.6MM SS
	PWPC8C42CQD4	POWER BOARD
	040G 45762412B	CBPC LABEL
GND1	009G6005 1	GROUND TERMINAL
CN801	033G8021 2E F	WAFER
CN802	033G8021 2E F	WAFER
CN803	033G8021 2E F	WAFER
CN804	033G8021 2E F	WAFER
	051G 6 4503	GLUE_RTV
IC903	056G 139 3A	IC PC123Y22FZ0F
NR901	061G 58120 WT	NTCR 120HM 20% 2A SCK-122
R908	061G152M104 64	100KOHM 5% 2W
R914	061G152M228 64	0.22 OHM 5% 2W
C903	063G107K474 6S	CAP X2 0.47UF K 275VAC
C801	065G 6J5096ET	CAP CER 5PF J 6KV
C811	065G 6J5096ET	CAP CER 5PF J 6KV
C902	065G305M1022BP	Y2 1000PF M 250VAC Y5P
C901	065G305M1022BP	Y2 1000PF M 250VAC Y5P
C921	065G306M4722BP	4700PF +-20% 400VAC
C803	067G215D4714KV	E.C 105°C CAP 470UF M 25V ED SERIES
C802	067G215D4714KV	E.C 105°C CAP 470UF M 25V ED SERIES
C918	067G215D6814KV	CAP 105°C 680UF M 25V
C917	067G215D6814KV	CAP 105°C 680UF M 25V
C939	067G215S1024KV	EC 105°C CAP 1000UF M 25V
C915	067G215S4713KV	EC 105°C CAP 470UF M 16V
C905	067G215Z12115K	ELCAP 105°C 120UF M 450V
L902	073G 174 65 H	LINE FILTER
L901	073G 174 76 H	FILTER
L903	073G 253191 H	IND CHOKE 1.1UH DADON
L904	073G 253191 YS	CHOKE COIL 1.1UH YS04110055
T901	080GL19T 23 YS	X'FMR 510UH YS04160061
T801	080GL19T 24 YS	X'FMR 740MH YS04170157



T802	080GL19T 24 YS	X'FMR 740MH YS04170157
CN901	087G 501 37 S	AC INLET ST-01DG-B2K-K
BD901	093G 50460 28	BRIDGE DIODE KBP208G LITEON
CN902	095G 825 9D 5	HARNESS 9P(SCN)-9P+6P 210MM
	705G 193 57 01	Q901 ASS'Y
	051G 200 1	OIL FOR DISAPPEAR
Q901	057G 667 21	STP10NK70ZFP
	090G6263 1	HEAT SINK
	0M1G1730 8120	SCREW
	705G 193 93 01	D906 ASS'Y
	051G 200 1	OIL FOR DISAPPEAR
D906	093G 60218	SB10100FCT
	0M1G1730 8120	SCREW
	Q90G6274 2	HEAT SINK
	705GQ9KA 93002	D905 ASS"Y
	051G 200 1	OIL FOR DISAPPEAR
	090G6084 1	HEAT SINK
D905	093G 60257	DIODE SB1060FCT ITO-220AB BY PAN JIT
	0M1G1730 8120	SCREW
IC801	056G 379 22	IC TL494IDR SOIC-16
IC901	056G 379 71	IC TEA1530AT/N2 SO-8 NXP
Q801	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q806	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q807	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q811	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q902	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q812	057G 417 6	PMBS3906/PHILIPS-SMT(06)
Q804	057G 417 6	PMBS3906/PHILIPS-SMT(06)
Q809	057G 759 2	RK7002
Q810	057G 759 2	RK7002
Q808	057G 760 4B	PDTA144WK SOT346
Q805	057G 760 5B	PDTC144WK SOT346
Q803	057G 763 64	FET APM9945KC-TRL 3A/60V SOP-8
Q802	057G 763 64	FET APM9945KC-TRL 3A/60V SOP-8
R809	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R812	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R818	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R821	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R822	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R824	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W



R826	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R925	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R942	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R926	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W
R834	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W
R833	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W
R832	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W
R828	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W
R817	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W
R813	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W
R808	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W
R862	061G0603105	RST CHIPR 1M OHM +-5% 1/10W
R835	061G0603105	RST CHIPR 1M OHM +-5% 1/10W
R801	061G0603150 1F	RST CHIPR 1.5 KOHM +-1% 1/10W
R814	061G0603150 1F	RST CHIPR 1.5 KOHM +-1% 1/10W
R815	061G0603150 1F	RST CHIPR 1.5 KOHM +-1% 1/10W
R816	061G0603150 1F	RST CHIPR 1.5 KOHM +-1% 1/10W
R924	061G0603152	RST CHIPR 1.5 KOHM +-5% 1/10W
R930	061G0603240 1F	RST CHIPR 2.4 KOHM +-1% 1/10W
R831	061G0603240 1F	RST CHIPR 2.4 KOHM +-1% 1/10W
R811	061G0603240 1F	RST CHIPR 2.4 KOHM +-1% 1/10W
R861	061G0603300 2F	RST CHIPR 30 KOHM +-1% 1/10W
R940	061G0603330 2F	RST CHIPR 33K OHM +-1% 1/10W
R927	061G0603360 1F	RST CHIPR 3.6K OHM +-1% 1/10W
R819	061G0603362	RST CHIPR 3.6 KOHM +-5% 1/10W
R823	061G0603362	RST CHIPR 3.6 KOHM +-5% 1/10W
R827	061G0603362	RST CHIPR 3.6 KOHM +-5% 1/10W
R805	061G0603470 2F	RST CHIPR 47 KOHM +-1% 1/10W
R820	061G0603470 2F	RST CHIPR 47 KOHM +-1% 1/10W
R803	061G0603564	RST CHIPR 560 KOHM +-5% 1/10W
R806	061G0603680 2F	RST CHIPR 68K OHM +-1% 1/10W
R807	061G0603680 2F	RST CHIPR 68K OHM +-1% 1/10W
R841	061G0603680 2F	RST CHIPR 68K OHM +-1% 1/10W
R853	061G0603680 2F	RST CHIPR 68K OHM +-1% 1/10W
R854	061G0603680 2F	RST CHIPR 68K OHM +-1% 1/10W
R851	061G0603820 1F	RST CHIPR 8.2 KOHM +-1% 1/10W
R839	061G0805100	10 OHM 1/10W
R850	061G0805100	10 OHM 1/10W
R804	061G0805101	RST CHIPR 100 OHM +-5% 1/8W
R911	061G0805102	RST CHIPR 1K OHM +-5% 1/8W

R917	061G0805102	RST CHIPR 1K OHM +-5% 1/8W
R929	061G0805102	RST CHIPR 1K OHM +-5% 1/8W
R938	061G0805103	RST CHIPR 10K OHM +-5% 1/8W
R810	061G0805150 2F	RST CHIPR 15 KOHM +-1% 1/8W
R916	061G0805152	RST CHIPR 1.5 KOHM +-5% 1/8W
R825	061G0805220	RST CHIPR 22 OHM +-1% 1/8W
R829	061G0805220	RST CHIPR 22 OHM +-1% 1/8W
R912	061G0805220 2F	RST CHIPR 22 KOHM +-1% 1/8W
R915	061G0805224	RST CHIPR 220 KOHM +-5% 1/8W
R837	061G0805473	RST CHIPR 47K OHM +-5% 1/8W
R931	061G0805822	RST CHIPR 8.2 KOHM +-5% 1/8W
JR801	061G1206000	RST CHIPR 0 OHM +-5% 1/4W
JR802	061G1206000	RST CHIPR 0 OHM +-5% 1/4W
JR803	061G1206000	RST CHIPR 0 OHM +-5% 1/4W
JR804	061G1206000	RST CHIPR 0 OHM +-5% 1/4W
JR805	061G1206000	RST CHIPR 0 OHM +-5% 1/4W
JR807	061G1206000	RST CHIPR 0 OHM +-5% 1/4W
JR808	061G1206000	RST CHIPR 0 OHM +-5% 1/4W
JR809	061G1206000	RST CHIPR 0 OHM +-5% 1/4W
JR901	061G1206000	RST CHIPR 0 OHM +-5% 1/4W
R967	061G1206000 4	RST CHIPR 0 OHM +-5% 1/4W
F902	061G1206000 4	RST CHIPR 0 OHM +-5% 1/4W
F801	061G1206000 4	RST CHIPR 0 OHM +-5% 1/4W
R909	061G1206100	RST CHIPR 10 OHM +-5% 1/4W
R910	061G1206100	RST CHIPR 10 OHM +-5% 1/4W
R918	061G1206101	RST CHIPR 100 OHM +-5% 1/4W
R919	061G1206101	RST CHIPR 100 OHM +-5% 1/4W
R920	061G1206101	RST CHIPR 100 OHM +-5% 1/4W
R935	061G1206101	RST CHIPR 100 OHM +-5% 1/4W
R961	061G1206101	RST CHIPR 100 OHM +-5% 1/4W
R962	061G1206101	RST CHIPR 100 OHM +-5% 1/4W
R921	061G1206102	RST CHIPR 1K OHM +-5% 1/4W
R922	061G1206102	RST CHIPR 1K OHM +-5% 1/4W
R923	061G1206102	RST CHIPR 1K OHM +-5% 1/4W
R928	061G1206102	RST CHIPR 1K OHM +-5% 1/4W
R855	061G1206150	RST CHIPR 15 OHM +-5% 1/4W
R856	061G1206150	RST CHIPR 15 OHM +-5% 1/4W
R857	061G1206150	RST CHIPR 15 OHM +-5% 1/4W
R858	061G1206150	RST CHIPR 15 OHM +-5% 1/4W
R904	061G1206472	RST CHIPR 4.7K OHM +-5% 1/4W

R932	061G1206472	RST CHIPR 4.7K OHM +-5% 1/4W
R933	061G1206472	RST CHIPR 4.7K OHM +-5% 1/4W
R901	061G1206684	RST CHIPR 680K OHM +-5% 1/4W
R902	061G1206684	RST CHIPR 680K OHM +-5% 1/4W
R903	061G1206684	RST CHIPR 680K OHM +-5% 1/4W
C842	065G0603103 12	CHIP 0.01UF 16V X7R
C924	065G0603103 12	CHIP 0.01UF 16V X7R
C834	065G0603104 22	CAP CHIP 0603 0.1UF K 25V X7R
C825	065G0603104 22	CAP CHIP 0603 0.1UF K 25V X7R
C821	065G0603104 22	CAP CHIP 0603 0.1UF K 25V X7R
C807	065G0603104 22	CAP CHIP 0603 0.1UF K 25V X7R
C823	065G0603222 22	CHIP 2200PF 25V X7R
C819	065G0603222 22	CHIP 2200PF 25V X7R
C816	065G0603222 22	CHIP 2200PF 25V X7R
C815	065G0603222 22	CHIP 2200PF 25V X7R
C910	065G0805102 32	CHIP 1000P 50VX7R 0805
C820	065G080510231G	CHIP CAP 0805 1000PF G 50V NPO
C931	065G0805104 32	CAP CHIP 0805 0.1UF K 50V X7R
C930	065G0805104 32	CAP CHIP 0805 0.1UF K 50V X7R
C916	065G0805104 32	CAP CHIP 0805 0.1UF K 50V X7R
C907	065G0805104 32	CAP CHIP 0805 0.1UF K 50V X7R
C824	065G0805104 32	CAP CHIP 0805 0.1UF K 50V X7R
C805	065G0805104 32	CAP CHIP 0805 0.1UF K 50V X7R
C822	065G0805105 22	CAP CHIP 0805 1UF K 25V X7R
C928	065G0805122 31	CHIP CAP 0805 1200PF J 50V NPO
C838	065G0805152 31	1.5NF/50V
C839	065G0805152 31	1.5NF/50V
C840	065G0805152 31	1.5NF/50V
C841	065G0805152 31	1.5NF/50V
C911	065G0805224 22	CAIP CAP 0.22 UF 25V X7R
C909	065G0805224 32	0.22UF,K,50V,X7R
C845	065G0805225 12	CAP CHIP 0805 2.2UF K 16V X7R
C912	065G1206102 72	CAP CHIP 1206 1000PF K 500V X7R
C929	065G1206102 72	CAP CHIP 1206 1000PF K 500V X7R
D805	093G 64 38 P	BAW56
D808	093G 64 38 P	BAW56
D903	093G 64 38 P	BAW56
D916	093G 6432S	IN4148W
D915	093G 6432S	IN4148W
D817	093G 6432S	IN4148W

D814	093G 6432S	IN4148W
D809	093G 6432S	IN4148W
D806	093G 6432S	IN4148W
D801	093G 6433P	BAV99
D802	093G 6433P	BAV99
D803	093G 6433P	BAV99
D804	093G 6433P	BAV99
ZD922	093G 39S 25 T	RLZ5.1B LLDS
ZD902	093G 39S 61 T	DIODE RLZ16B ROHM
ZD921	093G 39S 61 T	DIODE RLZ16B ROHM
CN901	006G 31500	EYELET
NR901	006G 31502	1.5MM RIVET
T901	006G 31502	1.5MM RIVET
IC904	056G 158 12	KIA431A-AT/P TO-92
C906	065G 2K152 1T6213	CAP CER 1500PF K 2KV
C938	065G 2K152 1T6213	CAP CER 1500PF K 2KV
C908	067G215Y2207KT	CAP 105°C 22UF M 50V KINGNICH
FB901	071G 55 29	FERRITE BEAD
F901	084G 55 1W	FUSE 4A 250V WICKMANN
D901	093G 6038P52T	PS102R
D900	093G1100 1152T	DIODE PR1007R 1A/1000V DO-41
J801	095G 90 23	JUMP WIRE
J802	095G 90 23	JUMP WIRE
J803	095G 90 23	JUMP WIRE
J804	095G 90 23	JUMP WIRE
J805	095G 90 23	JUMP WIRE
J806	095G 90 23	JUMP WIRE
J906	095G 90 23	JUMP WIRE
J904	095G 90 23	JUMP WIRE
J903	095G 90 23	JUMP WIRE
J902	095G 90 23	JUMP WIRE
J901	095G 90 23	JUMP WIRE
J817	095G 90 23	JUMP WIRE
J816	095G 90 23	JUMP WIRE
J815	095G 90 23	JUMP WIRE
J814	095G 90 23	JUMP WIRE
J813	095G 90 23	JUMP WIRE
J812	095G 90 23	JUMP WIRE
J811	095G 90 23	JUMP WIRE
J810	095G 90 23	JUMP WIRE

J809	095G 90 23	JUMP WIRE
J808	095G 90 23	JUMP WIRE
J807	095G 90 23	JUMP WIRE
	715G2538 4	POWER BOARD PCB FR-1 160*124MM SS
HS4	Q85G0002 1	SHIELD_MAIN
	Q15G0267301	SHIELD
	Q33G0171 1 1C0100	LENS
	Q40G 22N61542B	RATING LABEL
	Q40G0001624 4A	PALLET LABEL
	Q40G0002615A43	TCO'03 LABEL
	Q40G0002615A48	POP LABEL
	Q40G0002850 9A	VISTA LABEL
	Q41G780A61573A	QSG
	Q41G780A61588A	HA STAND
	Q44G6000 149A	EMPTY CARTON
	Q44G600271610A	PAPER BOARD
	Q44GC041101	EPS(L)
	Q44GC041201	EPS(R)
	Q44GC041615 1A	22 LCD AOC CARTON
	Q44GSLIP10023A	PLASTIC SLIPSHEET
	Q45G 88607 34	PE BAG FOR BASE
	Q45G 88609 72 R	EPE BAG FOR MONITOR
	Q52G 1185 65	AOC MIDDLE TAPE
	Q52G6020 72	AOC PROTECT FILM
	041G780061553A	TCO'03 CARD
	041G780061554A	SERVICE CENTER LIST
	045G 76 28 RN	PE BAG FOR MANUAL
	089G 17356X553	AUDIO CABLE
	Q70G220161515C	CD MANUAL
	040G 58162435A	P/N LABEL
	040G 581689 4A	SERIAL LABEL FOR MONITOR

## 12. Different Parts List

**Diversity of TC72MPDTWKWRDQ Compared with TC72MPDBW1A1DI**

Location	Part No. for TPV	Description
	089G420A18N IS	POWER CORD 32-D001922(SHARE WITH TPV)
	CBPC7MMPA1Q1	CONVERSION G2670-1-2-X-5-080516
	Q07G 8 3 9	PALLET
	Q40G 22N61560A	RATING LABEL
	Q44GC041615 3A	22"LCD AOC CARTON
	Q45G 76 28 RN R	PE BAG MANUAL
	Q26G 800504 2	BARCODE LABEL FOR 3
	056G1133 (WA8MPPCMAQ1)	81 SST25LF020A-33-4C-SAE

**Diversity of TC72MPDLWKCKDQ Compared with TC72MPDBW1A1DI**

Location	Part No. for TPV	Description
	089G412A18NIS3	POWER CORD/32E1818058(SHARE WITH TPV)
	Q07G 8 3 9	PALLET
	Q40G0002634 1A	C-TICK LABEL
	Q44GC041615 4A	22"LCD AOC CARTON
	Q41G780A61549B	WARRANTY CARD
	Q26G 800504 2	BARCODE LABEL FOR 3
	Q40G 22N61566A	RATING LABEL